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THE ST ENVIRONMENT: EXPECTED CHARGED PARTICLE RADIATION LEVELS

E. G. STASSINOPOULOS

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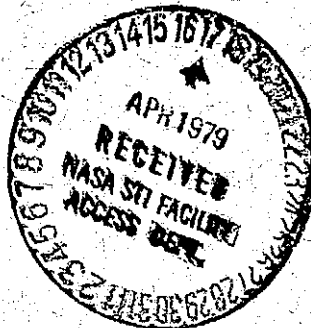
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National Aeronautics and
Space Administration

Goddard Space Flight Center
Greenbelt, Maryland 20771



The Charged Particle Environment of the Space Telescope (ST)

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E. G. Stassinopoulos

NASA-Goddard Space Flight Center
Sciences Directorate
National Space Science Data Center

October 1978

Goddard Space Flight Center
Greenbelt, Maryland 20771

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The Charged Particle Environment of the Space Telescope: (ST).

1. INTRODUCTION

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A comprehensive radiation environment study was conducted for the Space Telescope mission, at the request of the ST Project Office.

The ST shall be a spaceborne astronomical facility capable of observing the faintest objects in the universe. The ST will use the most sensitive UV/visible analog and photon-counting detectors ever launched into space. The high sensitivity of these detectors, however, poses difficulties as they shall be correspondingly more sensitive to radiation induced noise. This noise source can significantly reduce expected performance unless care is taken in the choosing of components, the constructing of local shielding about the detectors, the designing of on-board radiation-noise suppression circuitry, the determining of the nature of radiation signatures in the data so they can be removed during on-ground processing, and the selecting of operating modes that minimize radiation effects.

The purpose of this study is to evaluate in a comprehensive manner the radiation environment that will be sampled by the ST. A knowledge of this environment should allow determination of the cause for transient noise generation and the expected levels for this noise as a function of orbit position.

For this purpose, extensive calculations were performed and a large data base was generated, processed, and analyzed. The results of this effort are presented in a transparent way to facilitate their use:

As guidelines for laboratory radiation studies of optical, electronic, and detector components;

As a source of information for the investigators on the environment (average and instantaneous) in which their instruments must operate;

and,

As the boundary conditions for calculating the radiation environment interior to the spacecraft.

The external (surface incident) charged particle radiation, predicted for the ST satellite at the three different mission altitudes, was determined in two ways: (a) by orbital flux-integration and (b) by geographical instantaneous flux-mapping. The latest standard models of the environment were used in this effort.

Magnetic field definitions for three nominal circular trajectories and for the geographic mapping positions were obtained from a current field model.

Spatial and temporal variations or conditions affecting the static environment models were considered and accounted for, wherever possible.

Finally, limited shielding and dose evaluations were performed for a simple geometry.

Results, given in graphical and tabular form, are analyzed, explained, and discussed. Conclusions are presented and commented on.

2. SPECIFICATION OF ORBITS

The analysis was based on three nominal circular orbits with altitudes of 400, 500, and 600 kilometers, and all with inclination of about 29 degrees.

3. GENERATION OF TRAJECTORIES

A flight path ephemeris was generated for each selected orbit with the GEODYN-BLCONV System¹ for trajectories of 24-hour duration defined at 2-minute intervals. The length of simulated orbit time and the integration stepsize were especially selected so as to provide sufficient point density to insure an adequate sampling of the ambient radiation environment, when flying the trajectories through the models. The trajectories were subsequently converted from geodetic polar to magnetic B-L coordinates with McIlwain's INVAR program of 1965² and the field routine ALLMAG,³ which now utilizes the BARRACLOUGH 1975 field model.⁴ The field computations were extrapolated to the tentative mission epoch of 1984.0 with linear time terms representing secular variations of the field.

4. FLIGHT PATH EXPOSURE TO TRAPPING DOMAINS

The selected flight path configurations display a significant characteristic of all low altitude earth orbits; namely, they lie partially in region of space where no particle trapping can occur because of atmospheric cut-off conditions; that is, trajectory segments have a combination of magnetic B and L values that place them outside the atmospheric cut-off limits of the models. This affords the satellite flux-free time, which may be of substantial duration.

5. GEOGRAPHIC FLUX-MAPPING

A. Range and Altitudes

The geographic mapping activity was limited to the altitudes (h) of 400, 500, and 600 kilometers. It extended in geodetic latitude (λ) from 32°N to 32°S, covering all longitudes (ϕ) from 180°W to 180°E. Grid points were generated at increments of $\Delta\lambda = 1^\circ$ and $\Delta\phi = 2^\circ$.

B. Magnetic Parameters and Flux Calculations

The magnetic B-L parameters corresponding to the grid positions were obtained with the same set of programs as in the trajectory conversion (INVAR, ALLMAG, BARRACLOUGH), and for the same epoch (1984.0).

Instantaneous integral, omnidirectional electron and proton fluxes at the grid points were obtained for several energy thresholds at each altitude level ($E_e > .1, .25, .50, 1.0, 1.5, 2., 3., 4.$ Mev; $E_p > 1, 10, 25, 50, 100, 250, 500$ Mev).

6. TRAPPED PARTICLE ENVIRONMENT

The fluxes in this study were obtained from current NSSDC models: the solar minimum AE5 for the inner zone electrons,⁵ and the solar minimum version of the new AP8 model⁶ for energetic trapped protons. Both models describe an average static environment at a given epoch.

7. ORBITAL FLUX INTEGRATIONS

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Orbital flux integrations were performed with the UNIFLUX⁷ and the SOFIP⁸ systems. UNIFLUX provided L-band distributions and exposure times with B-L bin breakdown, while SOFIP provided the dose and shield data.

8. GEOMAGNETIC SHIELDING AND SOLAR FLARE PROTONS

This analysis does not concern itself with energetic solar flare protons because the mission is:

- (a) scheduled to fly during the inactive phase of the solar cycle (solar minimum); and,
- (b) at all times 100% geomagnetically shielded from cosmic rays of galactic or solar origin in the energy range up to $E > 3$ Bev.

9. FLUX DATA: TYPE, QUALITY, AND VARIATIONS

The trapped particle flux data available from the models represent omnidirectional, integral intensities that one would expect to obtain as average values over periods in excess of six months. But over most regions of magnetospheric space ($L \lesssim 2$ earth radii), short term excursions can vary from these values by factors of 10^2 to 10^3 , depending on the particle energies and on the type and intensity of the causative event. These variations, however, do not affect the ST mission because its trajectory never enters regions of space where L is greater than 1.8 earth radii. Also, trapped particle populations experience changes due to: (a) local time dependence, and (b) solar cycle dependence. The former is of no consequence to ST, as it is only significant for spacecraft that sample regions of $L > 5$ earth radii. The latter has been taken into account by selecting the appropriate (solar min) models.

Solar cycle variations have opposite effects on each particle species:

	<u>Solar Min</u>	<u>Solar Max</u>
Electrons	low	high
Protons	high	low

The solar cycle changes, as derived from a comparison of the corresponding models, are functions of energy E and magnetic parameter L. For the inner zone electrons they may range from a factor of 1 to a factor of 5.

Protons are only affected in the vicinity of the atmospheric cutoff regions. No changes of consequence have been observed in the heart of the proton trapping domain. Proton changes have about the same range as those of the electrons.

Should the ST mission duration extend past the minimum phase into the maximum phase of solar activity, new evaluations would have to be performed.

It is necessary to emphasize that the calculations, although based on the best data available for past epochs, can only serve as approximations for the future.

It also should be noted that basic uncertainty factors of 2 are attached to the flux values of the AE5 and AP8 models. However, these were not used in the calculations. Therefore, if worst case estimates (upper limits) are desired, the above uncertainty factors should be applied to the data contained in this report.

10. DOSE AND SHIELDING EVALUATION

Doses were calculated from the total orbit integrated, surface incident, omnidirectional, integral fluences by existing shielding codes,⁹ as functions of various aluminum shield thicknesses.

A simple procedure was followed, not involving solid angle sectoring or three-dimensional geometry considerations. Instead, a simple two-dimensional geometry with a cosine law for the incident spectra was considered.

Bremsstrahlung calculations were performed with the same codes.

11. RESULTS: PRESENTATION DESCRIPTION

This section describes the form and format in which the results, derived from the Orbital Flux Integration (OFI) process, are presented for practical use. Except where otherwise specified, all particle data in this report relate to integral, omnidirectional fluxes or fluences.

A. Tabular Presentations

The outcome of all calculations is summarized in Tables 1 to 21. The Tables are arranged in five sets, where every set pertains to one specific type of data. The first two sets have two similar members for every trajectory considered in the study: one for trapped protons and one for electrons, in that order. The last three sets contain only one member for each trajectory. A more detailed description of the tables is provided elsewhere.

I. L-band Tabulations : Tables 1-6

Tabulation of total orbit-integrated fluence distributions by L-bands for selected energy thresholds, in units of particles per square centimeter, normalized to 5 Mev and .5 Mev for protons and electrons, respectively.

The tables contain 36 L-bands of equal size covering the range from $L = 1.0$ to $L = 8.2$ earth radii in constant increments of .2 earth radii.

II. Spectral Profiles : Tables 7-12

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Tabulation of average orbit-integrated spectral distributions. Composite spectra are given in units of: fluxes per square centimeter per second, fluxes per square centimeter per day, and total fluences per specified mission duration (1 year). For the electrons, the latter are also given in terms of inner and outer zone contributions. Functionally derived differential fluxes are listed in the last columns for both species of particles.

Total orbit-integrated spectra in percent, for energy intervals ΔE corresponding to the energy levels of the L-band tables are also given, in terms of average instantaneous and daily intensities.

An exposure index (for the normalization energies used in the L-band tables) is listed for nine successive intensity ranges varying by one order of magnitude, in terms of processed exposure duration (in hours) and total number of particles accumulated while in that intensity range for the indicated number of hours.

III. Peaks And Totals Per Orbit : Tables 13-15

These tables contain the absolute instantaneous peak fluxes and the total fluences accumulated during each successive revolution, as obtained from the nominal trajectories for the investigated flight duration (24 hours of mission time).

Specifically, there are nine columns on these tables. Column 1 is an orbit counting device, based on:

- a) the orbit period when the trajectory is circular and lies in the equatorial plane;

- b) the physical perigee in all elliptical flight-path cases;
and,
- c) the equatorial crossing for circular inclined trajectories.

Column 2 gives the peak flux. Columns 3, 4, and 5 indicate the spacecraft position in geocentric coordinates at which the predicted peak flux was encountered. Columns 6, 7, and 8 determine respectively the relative orbit time and the magnetic B-L coordinates for this event. For the purpose of orbital radiation studies, all simulated trajectories start at $t_0=0$ hours. Finally, the last column indicates the total predicted flux to be encountered during that particular orbit. It is advisable to disregard the last line on this table because many times that orbit (#15) is incomplete and the fluxes or positions shown do not correspond to true peaks.

IV. Trajectory Time-Accounting And Exposure-Analysis : Tables 16-18

The "EXPOSURE-ANALYSIS" summary indicates what percent of its total lifetime T the satellite spends in "flux-free" regions of space, what percent of its total flux it accumulates.

In the context of this study, the term "flux-free" applies to all regions of space where trapped particle fluxes are less than one proton or electron per square centimeter per second, having energies $E > 5$ Mev, and $E > .5$ Mev, respectively. By definition, this includes all regions external to the Van Allen radiation belts.

The concept of "trapped particle fluxes" is meant to include stably trapped, pseudo-trapped, and transient fluxes, as long as they are part of or contained in the environment models used and, in the case of transients or pseudos, their sources are considered powerful enough to supply them continuously in substantial numbers.

Similarly, as "high intensity" are defined those regions of space where the instantaneous, integral, omnidirectional, trapped-particle flux is greater than 10^3 protons with energies $E > 5$ Mev, and greater than 10^5 electrons with energies $E > .5$ Mev.

The values given in these tables are statistical averages, obtained over extended intervals of mission time. However, they may vary significantly from one orbit to the next, when individual revolutions are considered.

The "TIME-ACCOUNT" breakdown shows what percent of its total time the satellite spends in the "inner zone" ($1.0 \leq L < 2.8$) and in the "outer zone" ($2.8 \leq L \leq 11.0$) electron trapping domains, and also the percent of time spent in regions external to the latter ($L > 11.0$).

Though of no importance to the ST because of its low orbit, it should be noted that the confinement of the outer zone within the

boundary of the $L = 11.0$ earth radii volume is arbitrary and has no physical meaning. It is intended only as a simplification to facilitate the calculations. The region considered "external" ($L > 11.0$) in this study is still partially a domain of the outer zone, at least as far out as $L = 12.0$ earth radii, according to the current environment models.

A last item on this table : the inner zone time is further subdivided into two parts: the percentage of time spent outside ($L < 1.1$) and inside ($1.1 \leq L < 2.8$) the trapping domain.

V. Total Dose and Components : Tables 19-21

These tables list doses in units of rads_{Al} as a function of aluminum shield thickness, given in three ways: range z in grams per square centimeter, depth t in millimeters, and depth t in mils.

Electron, bremsstrahlung, and proton contributions to the overall sum-total dose are given separately. Electron and proton doses are further broken down into their respective constituents, namely inner zone and outer zone for the former, trapped and solar flare for the latter.

The specific mission duration for which the doses have been calculated is indicated in the table headline.

VI. Spatial Flux-Maps : Tables M1-M218

Maps of instantaneous, positional, integral fluxes are tables containing 65 latitude rows, covering the entire planned latitude range ($32^\circ\text{N} \geq \lambda \geq 32^\circ\text{S}$) in increments of $\Delta\theta = 1^\circ$, and 15 longitude columns, corresponding to a longitude-range-per-table of 30° in increments of $\Delta\phi = 2^\circ$. Full azimuthal coverage is thereby achieved with 12 tables, comprising one set.

For each selected energy threshold of each particle species (8 for electrons, 7 for protons) one such set of a dozen tables was generated per altitude level processed ($h = 400, 500, 600$). Thus, a total of 45 sets of mapping tables were produced.

Every set initially contained its 12 member-tables. However, for reasons of bulk reduction and printing economy, empty members were deleted from this report.

The data in the tables represent integral, omnidirectional, trapped particle fluxes, as yielded by the respective environment models for the indicated positions. The number (1) was used to denote positions where no fluxes are predicted.

B. Graphical Presentation

Some of the tabulated data are plotted also in Figures 1 to 18, and 25 to 29 with additional Figures 19 to 24 containing plots of

flight path data. As with the tables, the computer plots are arranged in six sets, where again each set pertains to one specific type of data. The first three sets have two similar members for trajectory investigated: one for each particle species. The last three sets contain only one member for every trajectory. The plots are also described and explained in reference.⁷

I. Time And Flux Histograms : Figures 1-6

These plots show two curves superimposed on the same graph, namely one each for the variables "time" and "flux". Both are given on a semi-log scale as functions of the parameter L (earth radii), within the range $1 \leq L \leq 10$, and for constant L-bands of .1 earth radius width. The plots depict:

- a) by a plain curve, the characteristic trajectory intensities as obtained from the orbital integration process in terms of averaged integral particle fluxes above a given energy.
- b) by a contour marked with symbols, the percent total lifetime (%T) spent in each L interval.

The logarithmic ordinate relates to the time-flux variables. The printed numbers are powers of 10 and pertain to the fluxes; the scale values for the time curves are given in the upper part of the ordinate label: from 10^{-3} to 10^2 percent of T. the type of particles, their integral energy, and the units, are all given in the lower part of the label. The label on the top of the graph identifies the trajectory.

II. Spectral Profiles : Figures 7-12

A graphical presentation of the final composite spectral distribution, obtained from the orbital integration process. The plots are semi-log graphs, where the abscissa is a linear energy scale for integral particle energies E, in Mev, and the ordinate is a logarithmic scale for the fluxes, given in daily averages for energies greater than E; the printed scale values are powers of 10.

III. Peaks Per Orbit : Figures 13-18

Here the absolute peak intensities, encountered per period (1 period = 1 revolution = 1 orbit), are plotted for the duration of the flight time processed in the analysis. The logarithmic ordinate, with scale values in powers of 10, relates to instantaneous particle fluxes of the environment at the indicated energy thresholds, while the abscissa is a linear orbit enumeration.

IV. Trajectory World Map Projections : Figures 19-21

These graphs depict the surface trace of the geocentrically projected subsatellite positions. The trajectories are plotted for several revolutions on a global map produced by a Miller

Cylindrical Projection method. The contours of the continents have been omitted for clarity. The positions of equatorial crossing, of physical perigee, or of period commencement are indicated by numbers identifying the orbits shown in the graphs. For all trajectories, the distance between successive sequential numbers is a measure of the orbit precession.

V. Flight Path Tracing in B-L Space : Figures 22-24

Plots showing trajectory traces in B-L space on a semi-log scale. Several orbits are depicted, each identified by its sequential number. The magnetic equator is entered on all plots. The logarithmic ordinate relates to the field strength B in gauss; the printed values are exponents of 10. L is given in earth radii on the linear abscissa.

VI. Dose-Depth Curves : Figures 25-27

Plots of final depth-dose values for the indicated mission duration. Normally, these plots show composite curves for bremsstrahlung, combined electrons (inner and outer zone), combined protons (trapped and solar flare), and sumtotal of all contributions. In the present case, the respective contours consist of inner zone electrons and trapped protons only, as no outer zone electrons and no solar flare proton contributions exist for these orbits.

The logarithmic ordinate, with scale values in powers of 10, relates to aluminum dose in units of rads. The linear abscissa is the shield thickness, given in three different units: range z in grams per square centimeter, depth t in millimeters, depth t in mils.

12. RESULTS : ANALYSIS AND DISCUSSION

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In this section, some of the presented tabular or graphical study-results are discussed, with occasional comments as to their use, limits, and applications.

A. Spectral Profiles

Characteristic features of the near earth radiation environment are strong altitude and inclination dependencies. Here the presented external (surface incident) average daily intensities display only the former, which in the investigated altitude regime are most pronounced for the electrons. However, as only one inclination was considered in this study, the data do not reflect the important effect of the latter. It should be noted that small changes in inclination, in either direction, will produce significant changes in flux levels and spectral distributions.

I. Protons: The protons exhibit relatively hard, almost uniform spectra. Average orbit-integrated intensities rise steeply with

energies above 3.75 Mev. Spectra
extend to higher energies as height

altitude. Over the energy range from $E > 30$ Mev to $E > 500$ Mev the particle distribution per altitude could well be expressed in an exponential form:

$$F = F_0 \exp \left(\frac{50-E}{E_0} \right)$$

where F is the integral flux in units of particles per square centimeter per day, and E is the energy in Mev. F_0 and E_0 (in the same units as F and E) are given below for the three altitudes:

<u>Altitude</u>	<u>F_0</u>	<u>E_0</u>
400	2.218×10^6	93.9
500	5.414×10^6	98.1
600	1.064×10^7	102.6

This representation is clearly favored by the data: it holds over the indicated energy range with a maximum deviation of less than 5%.

II. Electrons: The electrons show complex variable spectra. Average, orbit-integrated intensities rise non-uniformly with altitude, particularly at increases, with differences reaching up to several orders of magnitude per 100 km altitude step.

These electron distributions cannot be represented by either exponential or power law forms. Also, being inner zone spectra, they rapidly fall off to zero flux in the energy range from 4 to 5 Mev and they are therefore more benign than their harder outer zone counterparts, which extend to energies of about 7 Mev.

B. Peaks Per Orbit

The absolute peaks per revolution have been obtained for standard processing energies: $E > 5$ Mev for protons and $E > .5$ Mev for electrons. Other energy selections produce different peak curves in an inverse relationship: lower energies yield higher and more expanded contours, and vice versa.

Peak contours of inclined circular trajectories display amplitude variations and/or discontinuities (flux-free time) that follow periodic patterns based on the daily cycle of revolutions. For fixed energies, amplitudes and discontinuities are function of: (a) inclination i , and (b) altitude h . Variations in either i or h may produce significant changes in the amplitude of the peak curves and in the duration of the discontinuities: up to several orders of magnitude for the former, and completely eliminating the latter.

Protons and Electrons: for the investigated trajectories at the given, fixed inclination ($i=29^\circ$). The peak contours of the 400 and 500 kilometer altitude levels are very similar in shape for both species of particles, displaying only small and gradual changes: a slight rise and "swelling", but no significant loss of flux-free time

(about 6 revolutions/day). The third altitude (600 km), however, experiences (in addition to the rise) a substantial decrease in that commodity: down to only 4 revolutions/day.

C. Flux-Free Time

Some comments on this topic have been provided in the previous section and in section 11/IV/a. Here a more detailed discussion will be given.

Flux-free time (FFT) intervals are an important feature of certain orbital configurations. They may occur over short orbit segments (partial FFT per period) or over the entire length of a revolution (total FFT per period). In terms of geomagnetic geometry, the FFT's establish the duration for which the trajectory lies outside the trapping region of the corresponding particle species, evaluated at the given energies. Or conversely, they are a measure of the degree to which the trajectory is exposed to the charged particle trapping domains.

As indicated in the preceeding section (12/B), one manifestation of extended FFT occurrence is the sharp drop-off of the peak contours (electrons and protons alike) to the zero-flux levels. In the case of the ST mission, this happens for several orbits in the investigated study-duration of 24 hours. That is, for the entire length of the respective revolutions, no Van Allen belt radiation at all is to be encountered by the satellite, according to model predictions.

The number of consecutive flux-free orbits of circular trajectories is primarily a function of altitude and inclination and to a lesser degree a function of particle energy. For the selected energies (electrons: $E > .5$ Mev, protons: $E > 5$ Mev), the investigated ST flight paths yield about 6 consecutive flux-free revolutions per day at $h = 400$ and $h = 500$ kilometers, and about 4 per day at $h = 600$ kilometers. The total FFT, which includes contributions from partially exposed revolutions (see "Exposure Analysis," Tables #16, 17, and 18) in percent of total mission duration can be simply summarized:

<u>Altitude</u> (km)	<u>Protons</u> ($E > 5$ Mev)	<u>Electrons</u> ($E > .5$ Mev)
400	90%	89%
500	87%	86%
600	84%	82%

Higher energies will yield longer FFT's because the more energetic particles occupy a smaller volume of space.

D. Dose and Shielding

The calculated doses display features characteristic of the near earth radiation environment: small contributions from relatively benign and low intensity electron spectra combined with major contributions from comparatively hard and intense proton spectra.

The proton-dose dominance prevails for all shield thicknesses greater than about 30-40 mils of aluminum; which is in the range of average satellite skin thicknesses (most common range: about 30-70 mils).

Significant is the fact that the proton dose is only a weak function of shield thickness, as it shows very little attenuation over the evaluated depth range. Thus, in order to get an appreciable reduction in the dose, say by one order of magnitude, a 20-fold increase in shield thickness over an average satellite skin is necessary.

I. Decay and Degradation

The total annual doses obtained for each of the three investigated trajectories are comfortably low. In terms of electronics decay or materials degradation, the doses to be experienced inside the satellite, that is behind the skin, are insignificant even for the most sensitive components or equipment: about 80-500 rads per year behind 36 mils of equivalent aluminum.

II. Contamination and Interference

The above statements do not imply that the direct or indirect effects of the radiation environment may not be a nuisance in terms of instrument interference or measurement contamination. If such is the case, some remedies may be available. In this context see also reference 10 (IUE study report).

III. Possible Improvements

In the event that the magnitude of total dose or degree of radiation penetration behind the skin of the satellite is of importance to the ST mission, four possibilities exist to reduce the radiation effects on instrument and components:

- a) build or design an instrument less sensitive to radiation and construct the on-board and/or on-ground data processing software to remove or suppress radiation-induced noise
- b) change the orbit by any combination of the elements eccentricity, altitude, and inclination so as to achieve a more benign environment
- c) change the mission epoch: solar max for reduced proton intensities, solar min for reduced electron intensities
- d) provide increased shielding either by geometry or by weight or by a combination of both;

by geometry: perform a 3-D analysis (solid angle sectoring) and rearrange other equipment on board the satellite in order to provide maximum protection to sensitive part over greatest possible fraction of solid angle;

by weight: place additional shields around sensitive part as needed.

Clearly, only options (a) and (d) are viable for the ST.

E. Spatially Mapped Fluxes

The listed instantaneous positional intensities are in units of particles per square centimeter per second. The data are printed unaltered, as they are obtained from the models.

An inspection of these tables reveals an unusual feature which is most pronounced at the lower altitudes and for the more energetic particles; namely, regions of higher intensities that appear to the north of the South Atlantic Anomaly. At 400 kilometers, these secondary electron peaks are completely separated from the main body of the data for particles with energies $E > 3$ Mev, while at the 500 and 600 kilometer altitudes they are connected, as is the case with all the proton maps. These peak regions seem to be promontories or protrusions, and resemble high energy "streamers". Whether they are artifices of the modelling process or whether they represent real "physical" features of the environment has not been determined.

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F. Related Projects

Some of the radiation induced concerns and problems pertaining to the ST mission, are also shared by other projects, not unlike the ST in many respects of experiment hardware (with many similar operational requirements and instrument sensitivities), as for example:

the International Ultraviolet Explorer (IUE),
the Infra-Red Astronomy Satellite (IRAS),
the High Energy Astronomy Observatory (HEAO), and
the Solar Maximum Mission (SMM).

They all have related concerns about instrument performance (interference from radiation environment: contamination from primary and secondary radiation effects) and they have parallel equipment hardware considerations.

It should be noted, that IUE has a singularly different trajectory. Its orbit is eccentric (perigee ~ 25000 km, apogee ~ 46000 km), inclined ($i = 29^\circ$), and synchronous (period = 24 hours).

For all of the above listed projects, radiation studies have either been performed already or are now in progress. Specifically:

- I. IUE: Study concluded, report issued.¹⁰ Evaluation included (a) analysis of the space radiation environment and its effects on instruments and cameras, (b) determination of radiation-induced background current in the spectrograph cameras¹¹, (c) performance of irradiated optical and electronic components used in astronomical satellites,¹² and

(d) semiconductor device degradation.¹³ Also considered were experimentally established data for ultraviolet transmittance of optical materials.^{11, 12, 14}

II. IRAS: Study concluded, report in preparation (to be published in December 1978).

III. HEAO: Initial study performed, report issued.¹⁵ Evaluation included orbital flux integrations and geographic flux mapping only. Part of the data (trapped protons) obsolete. Work in progress on comprehensive, updated analysis.

IV. SMM: Study in progress, report to be issued in early 1979.

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 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE5, AE17 FOR SOLAR MINIMUM. *** UNIFLUX OF 1975 **
 ** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0; FOR INNER ZONE ELECTRONS (AE5) - UF= 1.0 **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1984.0 **
 ** VEHICLE: ST 29/400 KM ** INCLINATION= 29DEG ** PERIGEE= 400KM ** APOGEE= 400KM ** S/L ORBIT TAPE: TC5446 ** PERIOD= 1.543 **

 ** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN 5.000MEV **

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL					PARAMETER IN EARTH RADII)					L - BANDS		
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*	
1.000	1.06E 00	1.04E 00	1.06E 00	1.10E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2.500	1.04E 00	1.02E 00	1.03E 00	1.06E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5.000	1.00E 00	1.00E 00	1.00E 00	1.00E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10.00	9.20E-01	9.49E-01	9.17E-01	8.88E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25.00	6.79E-01	8.57E-01	8.02E-01	8.78E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
50.00	4.75E-01	7.19E-01	6.49E-01	4.45E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
100.0	2.64E-01	4.70E-01	3.63E-01	1.53E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
300.0	3.84E-02	5.99E-02	2.21E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
500.0	6.08E-03	7.23E-03	1.31E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NORMFLUX=	3.76E 05	2.11E 06	6.65E 05	1.99E 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL					PARAMETER IN EARTH RADII)					L - BANDS		
	3.4-3.6	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*	
1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
50.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
300.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
500.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NORMFLUX=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL					PARAMETER IN EARTH RADII)					L - BANDS		
	5.8-6.0	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-OVR*	
1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
50.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
300.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
500.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NORMFLUX=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Table 1

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OF POOR QUALITY

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AES, AE17 FOR SOLAR-MINIMUM ***** UNIFLUX-QE-1975 *****
 ** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0; FOR INNER ZONE ELECTRONS (AES) - UF= 1.0 **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4; BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1984.0 **
 ** VEHICLE : ST 29/400 KM ** INCLINATION= 29DEG ** PERIGEE= 400KM ** APOGEE= 400KM ** B7C ORBIT TAPE: TD5446 ** PERIOD= 1.543 **

 ***** ELECTRONIC HI *****
 ** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .5000MEV **

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL					PARAMETER		IN EARTH RADII)					L - BANDS	
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*		
.1000	8.18E 00	2.59E 01	2.74E 01	5.08E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.2500	4.12E 00	6.30E 00	4.74E 00	6.77E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.5000	1.00E 00	1.00E 00	1.00E 00	1.00E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.000	2.22E-01	1.47E-01	2.14E-01	1.49E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.500	1.08E-01	4.38E-02	8.66E-03	5.41E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.000	7.18E-02	2.17E-02	3.95E-02	2.05E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.000	2.10E-02	2.25E-03	2.79E-03	1.05E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	2.41E 05	9.37E 06	2.50E 07	6.24E 06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL					PARAMETER		IN EARTH RADII)					L - BANDS	
	3.4-3.6	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*		
.1000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.2500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.5000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL					PARAMETER		IN EARTH RADII)					L - BANDS	
	5.8-6.0	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-OVR*		
.1000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.2500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.5000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 2

*** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AES, AE17 FOR SOLAR MINIMUM *** UNIELUX OF 1975 ***
 ** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0; FOR INNER ZONE ELECTRONS (AES) - UF= 1.0 **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: BARRACLOUGH ET. AL. 168-TERM 1975 ** TIME= 1984.0 **
 ** VEHICLE : ST 29/500 KM ** INCLINATION= 29DEG ** PERIGEE= 500KM ** APOGEE= 500KM ** 87L ORBIT TAPE: 103446 ** PERIOD= 1.577 **

 ***** PROTONS *****
 ** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN 5.000MEV **

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL					PARAMETER IN EARTH RADII)					L - BANDS		
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*	
1.000	1.05E 00	1.04E 00	1.07E 00	1.15E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2.500	1.03E 00	1.03E 00	1.05E 00	1.09E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5.000	1.03E 00	1.03E 00	1.03E 00	1.03E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10.00	9.36E-01	9.47E-01	9.10E-01	8.30E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25.00	7.50E-01	8.37E-01	7.77E-01	5.81E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
50.00	5.70E-01	6.92E-01	6.23E-01	3.82E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
100.0	3.48E-01	4.54E-01	3.49E-01	1.38E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
300.0	3.62E-02	6.21E-02	3.01E-02	1.25E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
500.0	9.47E-03	8.00E-03	3.18E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NORMFLUX=	1.12E 00	4.69E 06	2.03E 06	6.57E 05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL					PARAMETER IN EARTH RADII)					L - BANDS		
	3.4-3.6	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*	
1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
50.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
300.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
500.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NORMFLUX=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL					PARAMETER IN EARTH RADII)					L - BANDS		
	5.8-6.0	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-OVR*	
1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
50.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
300.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
500.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NORMFLUX=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

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Table 3

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AES, AE17 FOR SOLAR MINIMUM *** UNI-FLUX OF 1975 **
 ** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0; FOR INNER ZONE ELECTRONS (AES) - UF= 1.0 **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1984.0 **
 ** VEHICLE : ST 297500 KM ** INCLINATION= 29DEG ** PERIGEE= 500KM ** APOGEE= 500KM ** 87L ORBIT TAPE: TDS446 ** PERIOD= 1.577 **

 ***** ELECTRONS HI *****
 ** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN .5000MEV **

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL					PARAMETER IN EARTH RADII)					L - BANDS		
	1.0-1.2	*1.2-1.4*	*1.4-1.5*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*	
.1000	1.17E 01	2.70E 01	2.64E 01	5.02E 01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.2500	5.27E 00	6.30E 00	4.75E 00	6.68E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.5000	1.00E 00	1.00E 00	1.00E 00	1.00E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1.000	1.66E-01	1.36E-01	2.14E-01	1.48E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1.500	7.08E-02	4.41E-02	8.57E-02	5.33E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2.000	4.33E-02	1.95E-02	3.89E-02	2.03E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3.000	1.11E-02	2.15E-03	2.76E-03	1.05E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4.000	0.0	4.10E-06	1.55E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NORMFLUX=	8.25E 06	3.29E 07	7.30E 07	1.69E 07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL					PARAMETER IN EARTH RADII)					L - BANDS		
	3.4-3.6	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*	
.1000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.2500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.5000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NORMFLUX=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL					PARAMETER IN EARTH RADII)					L - BANDS		
	5.8-6.0	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-OVR*	
.1000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.2500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
.5000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NORMFLUX=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Table 4

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8: AES, AE17 FOR SOLAR MINIMUM *** UNIFLUX OF 1975 **
 ** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0; FOR INNER ZONE ELECTRONS (AES) - UF= 1.0 **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA CF 1972 WITH ALLMAG. MODEL 4: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1984.0 **
 ** VEHICLE - ST 297600 KM ** INCLINATION= 20DEG ** PERIGEE= 600KM ** AP8GEE= 500KM ** B/L ORBIT TAPE: TDS446 ** PERIOD= 1.611 **

 ** SPECTRAL DISTRIBUTION : NORMALIZED BY FLUX OF ENERGY GREATER THAN 5.000MEV **

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
1.000	1.04E 00	1.05E 00	1.04E 00	1.20E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.500	1.03E 00	1.03E 00	1.06E 00	1.13E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.000	1.00E 00	1.00E 00	1.00E 00	1.00E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.00	9.58E-01	9.42E-01	8.94E-01	7.74E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.00	8.25E-01	8.13E-01	7.40E-01	4.91E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.00	6.81E-01	6.61E-01	5.80E-01	3.18E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.0	4.59E-01	4.29E-01	3.20E-01	1.14E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
300.0	8.65E-02	6.12E-02	2.83E-02	1.56E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
500.0	1.67E-02	8.38E-03	3.05E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	2.66E 00	9.26E 00	3.98E 00	1.47E 00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII)												L - BANDS		
	3.4-3.6	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*			
1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
2.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
5.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
10.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
25.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
50.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
300.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
500.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
NORMFLUX=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	5.8-6.0	*6.0-6.2*	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-OVR*
1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
300.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
500.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Table 5

*** UNBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: METIES AP8; AES, AE17 FOR SOLAR MINIMUM *** UNIFLUX OF 1975 ***
 ** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0; FOR INNER ZONE ELECTRONS (AES) - UF= 1.0 **
 ** MAGNETIC COORDINATES G AND L COMPUTED BY INVARA OF 1972 WITH ALL MAG. MODEL 4: BARRACLOUGH ET. AL. 168-TERM 1975. * TIME= 1994.0 **
 ** VEHICLE : ST 297000 KM ** INCLINATION= 29 DEG ** PERIGEE= 600KM ** APGEE= 600KM ** B/L ORBIT TAPS: TDS446 ** PERIOD= 1.611 **
 *** SPECTRAL DISTRIBUTION: NORMALIZED BY FLUX OF ENERGY GREATER THAN .5000MEV ***
 ELECTRONS H1

ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	1.0-1.2	*1.2-1.4*	*1.4-1.6*	*1.6-1.8*	*1.8-2.0*	*2.0-2.2*	*2.2-2.4*	*2.4-2.6*	*2.6-2.8*	*2.8-3.0*	*3.0-3.2*	*3.2-3.4*
.1000	1.64E-01	2.51E-01	2.54E-01	5.20E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.2500	6.72E-00	5.20E-00	4.75E-00	6.88E-00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.5000	1.00E-00	1.00E-00	1.00E-00	1.00E-00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.000	1.24E-01	1.41E-01	2.13E-01	1.45E-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.500	4.50E-02	4.64E-02	8.43E-02	5.15E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.000	2.51E-02	2.05E-02	3.03E-02	1.92E-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.000	4.82E-03	2.17E-03	2.07E-03	9.74E-04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.000	0.0	1.24E-03	1.77E-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	2.92E-06	1.02E-06	1.03E-08	3.61E-07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	3.4-3.6	*3.6-3.8*	*3.8-4.0*	*4.0-4.2*	*4.2-4.4*	*4.4-4.6*	*4.6-4.8*	*4.8-5.0*	*5.0-5.2*	*5.2-5.4*	*5.4-5.6*	*5.6-5.8*
.1000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.2500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.5000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENERGY LEVELS >(MEV)	L - BANDS (MAGNETIC SHELL PARAMETER IN EARTH RADII) L - BANDS											
	6.0-6.2	*6.2-6.4*	*6.4-6.6*	*6.6-6.8*	*6.8-7.0*	*7.0-7.2*	*7.2-7.4*	*7.4-7.6*	*7.6-7.8*	*7.8-8.0*	*8.0-8.2*	*8.2-8.4*
.1000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.2500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
.5000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NORMFLUX=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 6

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AL5, AE17 FOR SOLAR MINIMUM *** UNIFLUX OF 1975 **
 ** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0; FOR INNER ZONE ELECTRONS (AE5) - UF= 1.8 **
 ** MAGNETIC COORDINATES J AND L COMPUTED BY INVARA OF 1972 WITH ALLWAG, MODEL 4: BARRACLOUGH ET. AL, 198-TERM 1975 * TIME= 1984.0 **
 ** VEHICLE : ST 29/400 KM ** INCLINATION= 29CEG ** PERIGEE= 400KM ** APOGEE= 400KM ** BYE ORBIT TYPE: TDS446 ** PERIOD= 1.543 **

 ***** PROTONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES #/(MEV)/SEC	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PERCENT
1.000-2.500	8.714E-01	7.322E-04	2.031
2.500-5.000	1.153E-00	1.001E-05	2.700
5.000-10.00	2.463E-00	2.145E-05	5.786
10.00-25.00	4.663E-00	4.040E-05	10.915
25.00-50.00	5.947E-00	5.139E-05	13.361
50.00-100.0	9.898E-00	1.552E-05	23.070
100.0-300.0	1.367E-01	1.207E-06	32.561
300.0-500.0	1.589E-00	1.373E-05	3.703
500.0-OVER	2.152E-01	1.842E-04	0.497
TOTAL	4.081E-01	3.525E-06	55.124

***** EXPOSURE INDEX: ENERGY > 5.000 MEV *****

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMULATED PARTICLES
ZERO FLUX	21.600	0.0
1.E0-1.E1	0.300	3.035E-03
1.E1-1.E2	0.600	1.034E-05
1.E2-1.E3	1.267	2.176E-06
1.E3-1.E4	0.233	1.060E-06
1.E4-1.E5	0.0	0.0
1.E5-1.E6	0.0	0.0
1.E6-1.E7	0.0	0.0
1.E7-OVER	0.0	0.0
TOTAL	24.000	3.351E-06

***** COMPOSITE ORBIT SPECTRUM ***** TAU= 1.00 YEAR(S)

ENERGY LEVELS >(MEV)	AVERAGED INTEG.FLUX #/CM**2/SEC	AVERAGED INTEG.FLUX #/CM**2/DAY	AVERAGED INTEG.FLUX #/CM**2/TAU	AVERAGED DIFFER.FLUX #/CM**2/SEC/KEV
1.000	4.291E-01	3.707E-06	1.353E-09	1.655E-03
1.500	4.182E-01	3.613E-06	1.319E-09	2.153E-03
2.000	4.130E-01	3.568E-06	1.302E-09	2.680E-03
2.500	4.081E-01	3.526E-06	1.287E-09	1.324E-03
3.000	4.050E-01	3.499E-06	1.277E-09	7.104E-04
3.500	4.018E-01	3.471E-06	1.267E-09	5.498E-04
4.000	3.994E-01	3.451E-06	1.260E-09	5.481E-04
4.500	3.971E-01	3.431E-06	1.252E-09	4.562E-04
5.000	3.924E-01	3.391E-06	1.238E-09	4.620E-04
5.500	3.878E-01	3.351E-06	1.223E-09	5.154E-04
6.000	3.833E-01	3.312E-06	1.209E-09	5.221E-04
6.500	3.730E-01	3.223E-06	1.176E-09	4.676E-04
7.000	3.630E-01	3.136E-06	1.145E-09	4.400E-04
7.500	3.559E-01	3.075E-06	1.122E-09	3.977E-04
8.000	3.457E-01	2.987E-06	1.090E-09	3.261E-04
8.500	3.295E-01	2.847E-06	1.039E-09	2.895E-04
9.000	3.162E-01	2.732E-06	9.571E-09	2.884E-04
9.500	3.036E-01	2.623E-06	9.574E-08	2.783E-04
10.000	2.789E-01	2.410E-06	8.797E-08	2.762E-04
10.500	2.667E-01	2.218E-06	8.096E-08	2.603E-04
11.000	2.005E-01	1.732E-06	6.322E-08	2.177E-04
11.500	1.577E-01	1.363E-06	4.574E-08	1.555E-04
12.000	9.100E-00	7.862E-05	2.870E-08	9.628E-05
12.500	9.337E-00	4.611E-05	1.683E-08	5.655E-05
13.000	3.090E-00	2.669E-05	9.743E-07	3.358E-05
13.500	1.802E-00	1.557E-05	5.683E-07	1.930E-05
14.000	1.058E-00	9.144E-06	3.337E-07	1.135E-05
14.500	6.212E-01	5.367E-06	1.959E-07	6.536E-06
15.000	3.647E-01	3.151E-06	1.150E-07	3.385E-06
15.500	2.132E-01	1.842E-06	6.723E-08	1.918E-06

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Table 7

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AES, AE17 FOR SOLAR MINIMUM *** UNIFLUX OF 1975 **
 ** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0; FOR INNER ZONE ELECTRONS (AES) - UF= 1.0 **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1984.6 **
 ** VEHICLE : ST 29/400 KM ** INCLINATION= 29CEG ** PERIGEE= 403KM ** APJGEE= 400KM ** B/L ORBIT TAPE: T05446 ** PERIOD= 1.143 **

 ***** ELECTRONS HI *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES #/(MEV)/SEC	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PERCENT
.1000-.2500	1.211E 04	1.047E 09	62.490
.2500-.5000	2.093E 03	1.808E 08	14.252
.5000-1.000	3.885E 02	3.356E 07	2.645
1.000-1.500	5.522E 01	4.771E 06	0.376
1.500-2.000	1.922E 01	1.661E 06	0.131
2.000-3.000	1.442E 01	1.246E 06	0.098
3.000-4.000	1.198E 00	1.035E 05	0.008
4.000-5.000	0.0	0.0	0.0
5.000-OVER	0.0	0.0	0.0
TOTAL	1.469E 04	1.269E 09	100.000

***** EXPOSURE INDEX: ENERGY > .5000 MEV *****

INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HCURS)	TOTAL # OF ACCLUMULATED PARTICLES
ZERO FLUX	21.367	0.0
1.E0-1.E1	0.333	5.769E 03
1.E1-1.E2	0.667	6.222E 04
1.E2-1.E3	0.667	1.029E 06
1.E3-1.E4	0.733	1.177E 07
1.E4-1.E5	0.333	2.848E 07
1.E5-1.E6	0.0	0.0
1.E6-1.E7	0.0	0.0
1.E7-OVER	0.0	0.0
TOTAL	24.000	4.135E 07

***** COMPOSITE ORBIT SPECTRUM ***** TAU= 1.00-YR(5)

ENERGY LEVELS >(MEV)	AVERAGED INTEG.FLUX **TOTAL** #/CM**2/SEC	AVERAGED INTEG.FLUX **TOTAL** #/CM**2/DAY	**** AVERAGED INTEGRAL FLUENCE *** * TOTAL = INNER ZONE + OUTER ZONE ***** #/CM**2/TAU			AVERAGED DIFFER.FLUX **TOTAL** #/CM**2/SEC/KEV
.1000	1.469E 04	1.269E 09	4.631E 11	4.631E 11	0.0	1.181E 02
.1250	1.095E 04	9.461E 08	3.453E 11	3.453E 11	0.0	1.114E 02
.1500	6.175E 03	7.063E 08	2.578E 11	2.578E 11	0.0	9.590E 01
.1750	6.110E 03	5.279E 08	1.927E 11	1.927E 11	0.0	7.965E 01
.2000	4.573E 03	3.951E 08	1.442E 11	1.442E 11	0.0	5.352E 01
.2500	2.572E 03	2.222E 08	8.110E 10	8.110E 10	0.0	2.251E 01
.3750	1.135E 03	9.546E 07	3.484E 10	3.484E 10	0.0	7.086E 00
.5000	4.785E 02	4.135E 07	1.509E 10	1.509E 10	0.0	2.737E 00
.6250	2.986E 02	2.494E 07	9.103E 09	9.103E 09	0.0	1.303E 00
.7500	1.752E 02	1.514E 07	5.526E 09	5.526E 09	0.0	5.766E 01
1.000	9.036E 01	7.761E 06	2.840E 09	2.840E 09	0.0	2.224E 01
1.250	5.596E 01	4.835E 06	1.765E 09	1.765E 09	0.0	1.072E 01
1.500	3.484E 01	3.010E 06	1.099E 09	1.099E 09	0.0	6.278E 02
1.750	2.330E 01	2.013E 06	7.349E 08	7.349E 08	0.0	3.797E 02
2.000	1.562E 01	1.349E 06	4.925E 08	4.925E 08	0.0	2.509E 02
2.250	1.050E 01	9.162E 05	3.344E 08	3.344E 08	0.0	2.001E 02
2.500	7.209E 00	6.229E 05	2.273E 08	2.273E 08	0.0	1.645E 02
2.750	2.921E 00	2.524E 05	9.213E 07	9.213E 07	0.0	4.763E 03
3.000	1.198E 00	1.035E 05	3.779E 07	3.779E 07	0.0	4.371E 03
3.250	4.482E 01	3.872E 04	1.413E 07	1.413E 07	0.0	1.667E 03
3.500	1.738E 01	1.502E 04	5.482E 06	5.482E 06	0.0	5.716E 04
3.750	6.868E 02	5.934E 03	2.166E 06	2.166E 06	0.0	2.376E 04
4.000	0.0	0.0	0.0	0.0	0.0	0.0
4.250	0.0	0.0	0.0	0.0	0.0	0.0
4.500	0.0	0.0	0.0	0.0	0.0	0.0
5.000	0.0	0.0	0.0	0.0	0.0	0.0
5.500	0.0	0.0	0.0	0.0	0.0	0.0
6.000	0.0	0.0	0.0	0.0	0.0	0.0
6.500	0.0	0.0	0.0	0.0	0.0	0.0
7.000	0.0	0.0	0.0	0.0	0.0	0.0

Table 8

 ** ORBITAL-FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AE5, AE17 FOR SOLAR MINIMUM. *** UNIFLUX OF 1975 ***
 ** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - U = 1.0; FOR INNER ZONE ELECTRONS (AE5) - UF= 1.0 **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1984.0 **
 ** VEHICLE: ST 29/500 KM ** INCLINATION= 29DEG ** PERIGEE= 500KM ** APOGEE= 500KM ** B/L ORBIT TAPE: YC5446 ** PERIOD= 1.577 **

 ***** PROTONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

ENERGY RANGES #/(MEV)/SEC	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PERCENT
1.000-2.500	2.378E 00	2.054E 05	2.170
2.500-5.000	3.667E 00	3.167E 05	3.347
5.000-10.00	7.133E 00	6.163E 05	6.510
10.00-25.00	1.358E 01	1.173E 06	12.391
25.00-50.00	1.545E 01	1.335E 06	14.101
50.00-100.0	2.431E 01	2.101E 06	22.193
100.0-300.0	3.354E 01	2.893E 06	30.612
300.0-500.0	4.177E 01	3.603E 06	3.812
500.0-OVER	6.377E-01	5.513E 04	0.582
TOTAL	1.049E 02	9.061E 06	95.720

***** EXPOSURE INDEX: ENERGY>5.000 MEV *****

INTENSITY RANGES #/CM**2/SE	EXPOSURE DURATION (HOURS)	TOTAL # OF ACCUMLATED PARTICLES
ZERO FLUX	20.867	0.0
1.E0-1.E1	0.367	4.945E 03
1.E1-1.E2	0.400	5.888E 04
1.E2-1.E3	1.367	2.255E 06
1.E3-1.E4	1.000	6.219E 06
1.E4-1.E5	0.0	0.0
1.E5-1.E6	0.0	0.0
1.E6-1.E7	0.0	0.0
1.E7-OVER	0.0	0.0
TOTAL	24.000	6.538E 06

**** COMPOSITE ORBIT SPECTRUM **** TAU= 1.00 YEAR(S)

ENERGY LEVELS >(MEV)	AVERAGED INTEG.FLUX #/CM**2/SEC	AVERAGED INTEG.FLUX #/CM**2/DAY	AVERAGED INTEG.FLUX #/CM**2/TAU	AVERAGED DIFFER.FLUX #/CM**2/SEC/KEV
1.0000	1.096E 02	9.466E 06	3.455E 09	3.750E-03
1.5000	1.071E 02	9.252E 06	3.377E 09	4.843E-03
2.0000	1.069E 02	9.151E 06	3.340E 09	4.687E-03
2.5000	1.049E 02	9.061E 06	3.307E 09	3.060E-03
3.0000	1.041E 02	8.990E 06	3.281E 09	1.792E-03
3.5000	1.032E 02	8.920E 06	3.256E 09	1.565E-03
4.0000	1.025E 02	8.855E 06	3.232E 09	1.682E-03
4.5000	1.017E 02	8.791E 06	3.209E 09	1.574E-03
5.0000	1.003E 02	8.663E 06	3.162E 09	1.457E-03
5.5000	9.882E 01	8.538E 06	3.116E 09	1.579E-03
6.0000	9.740E 01	8.416E 06	3.072E 09	1.541E-03
6.5000	9.449E 01	8.164E 06	2.960E 09	1.342E-03
7.0000	9.169E 01	7.922E 06	2.892E 09	1.274E-03
7.5000	8.957E 01	7.739E 06	2.825E 09	1.174E-03
8.0000	8.650E 01	7.474E 06	2.728E 09	9.601E-04
8.5000	8.169E 01	7.058E 06	2.576E 09	8.186E-04
9.0000	7.811E 01	6.749E 06	2.463E 09	7.791E-04
9.5000	7.473E 01	6.457E 06	2.357E 09	7.281E-04
10.000	6.840E 01	5.910E 06	2.157E 09	7.037E-04
10.500	6.267E 01	5.414E 06	1.976E 09	6.489E-04
11.000	4.887E 01	4.222E 06	1.541E 09	5.299E-04
11.500	3.635E 01	3.14E 06	1.209E 09	3.825E-04
12.000	2.260E 01	1.952E 06	7.126E 08	2.308E-04
12.500	1.350E 01	1.167E 06	4.258E 08	1.371E-04
13.000	9.037E 00	6.944E 05	2.535E 08	8.222E-05
13.500	4.814E 00	4.160E 05	1.518E 08	4.910E-05
14.000	2.894E 00	2.501E 05	9.128E 07	2.957E-05
14.500	1.740E 00	1.503E 05	5.466E 07	1.738E-05
15.000	1.054E 00	9.102E 04	3.322E 07	9.214E-06
15.500	6.377E-01	5.510E 04	2.011E 07	5.529E-06

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Table 9

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AES, AE17 FOR SOLAR MINIMUM *** UNIFLUX OF 1975 ***
 ** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0; FOR INNER ZONE ELECTRONS (AES) - UF= 1.0
 ** MAGNETIC COORDINATES U AND L COMPUTED BY INVARA OF 1972 WITH ALL MAG. MODEL 4: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1984.0 **
 ** VEHICLE : ST 29/500 KM ** INCLINATION= 29CFG ** PERIGEE= 500KM ** APDGE= 500KM ** 87L ORBIT TAPE: 7C5442 ** PERIOD= 1.577 **

 ***** ELECTRON HI *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

***** COMPOSITE ORBIT SPECTRUM ***** TAU= 1.00-YR(S)

ENERGY RANGES #/(MEV)/SEC	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PERCENT	ENERGY LEVELS >(MEV)	AVERAGED INTEG.FLUX **TOTAL** #/CM**2/SEC	AVERAGED INTEG.FLUX **TOTAL** #/CM**2/DAY	**** AVERAGED INTEGRAL FLUENCE **** * TOTAL = INNER ZONE + OUTER ZONE ***** #/CM**2/TAU	AVERAGED DIFFER.FLUX **TOTAL** #/CM**2/TAU	AVERAGED DIFFER.FLUX **TOTAL** #/CM**2/TAU
.1000-.2500	3.625E 04	3.132E 05	81.919	.1000	4.425E 04	3.823E 09	1.395E 12	1.395E 12	0.0
.2500-.5000	6.535E 03	5.647E 04	14.770	.1250	3.315E 04	2.865E 09	1.046E 12	1.046E 12	0.0
.5000-1.000	1.197E 03	1.034E 04	2.705	.1500	2.468E 04	2.149E 09	7.845E 11	7.845E 11	0.0
1.000-1.500	1.660E 02	1.434E 03	0.375	.1750	1.869E 04	1.615E 09	5.895E 11	5.895E 11	0.0
1.500-2.000	5.568E 01	4.837E 02	0.128	.2000	1.407E 04	1.215E 09	4.436E 11	4.436E 11	0.0
2.000-3.000	4.191E 01	3.621E 02	0.095	.2500	8.301E 03	6.913E 08	2.523E 11	2.523E 11	0.0
3.000-4.000	3.483E 00	3.009E 01	0.008	.3750	3.409E 03	2.946E 08	1.075E 11	1.075E 11	0.0
4.000-5.000	1.466E -02	1.255E 00	0.000	.5000	1.455E 03	1.266E 08	4.620E 10	4.620E 10	0.0
5.000-OVER	0.0	0.0	0.0	.6250	8.735E 02	7.547E 07	2.755E 10	2.755E 10	0.0
TOTAL	4.425E 04	3.823E 09	100.000	.7500	5.248E 02	4.534E 07	1.655E 10	1.655E 10	0.0
***** EXPOSURE INDEX: ENERGY>.5000 MEV *****				1.000	2.681E 02	2.316E 07	8.454E 09	8.454E 09	0.0
INTENSITY RANGES #/CM**2/SEC	EXPOSURE DURATION (HOURS)	TOTAL # CF ACCUMLATED PARTICLES		1.250	1.652E 02	1.424E 07	5.211E 09	5.211E 09	0.0
ZERO FLUX	20.600	0.0		1.500	1.021E 02	8.820E 06	3.219E 09	3.219E 09	0.0
1.E0-1.E1	0.433	8.156E 03		1.750	6.803E 01	5.878E 06	2.145E 09	2.145E 09	0.0
1.E1-1.E2	0.000	8.737E 04		2.000	4.541E 01	3.923E 06	1.432E 09	1.432E 09	0.0
1.E2-1.E3	0.567	7.709E 05		2.250	3.077E 01	2.658E 06	9.703E 08	9.703E 08	0.0
1.E3-1.E4	0.933	1.388E 07		2.500	2.058E 01	1.804E 06	6.584E 08	6.584E 08	0.0
1.E4-1.E5	0.867	1.118E 08		2.750	6.478E 00	7.325E 05	2.673E 08	2.673E 08	0.0
1.E5-1.E6	0.0	0.0		3.000	3.498E 00	3.022E 05	1.103E 08	1.103E 08	0.0
1.E6-1.E7	0.0	0.0		3.250	1.153E 00	1.022E 05	3.730E 07	3.730E 07	0.0
1.E7-OVER	0.0	0.0		3.500	4.108E -01	3.550E 04	1.296E 07	1.296E 07	0.0
TOTAL	24.000	1.266E 08		3.750	1.455E -01	1.266E 04	4.619E 06	4.619E 06	0.0
				4.000	1.466E -02	1.266E 03	4.622E 05	4.622E 05	0.0
				4.250	0.0	0.0	0.0	0.0	0.0
				4.500	0.0	0.0	0.0	0.0	0.0
				5.000	0.0	0.0	0.0	0.0	0.0
				5.500	0.0	0.0	0.0	0.0	0.0
				6.000	0.0	0.0	0.0	0.0	0.0
				6.500	0.0	0.0	0.0	0.0	0.0
				7.000	0.0	0.0	0.0	0.0	0.0

Table 10

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP81 AES, AE17 FOR SOLAR MINIMUM *** UNIFLUX DE 1975 **
 ** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0; FOR INNER ZONE ELECTRONS (AE5) - UF= 1.0 **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA CF 1972 WITH ALLMAG. MODEL 4: BARRACLOUGH ET. AL. 1968-TERM 1975 * TIME= 1984.0 **
 ** VEHICLE: ST 297800 KM ** INCLINATION: 29 DEG ** PERIGEE: 680KM ** APGEE: 600KM ** B/L ORBIT TYPE: TDS446 ** PERIOD: 1.511 **

 ***** PROTONS *****

***** SPECTRUM IN PERCENT DELTA ENERGY ***** **** COMPOSITE ORBIT SPECTRUM **** TAU= 1.00 YEAR(S)

ENERGY RANGES #/ (MEV) / SEC	AVERAGED TOTAL FLUX #/ CM**2/ SEC	AVERAGED TOTAL FLUX #/ CM**2/ DAY	SPECTRUM PERCENT	ENERGY LEVELS > (MEV)	AVERAGED INTEG. FLUX #/ CM**2/ SEC	AVERAGED INTEG. FLUX #/ CM**2/ DAY	AVERAGED INTEG. FLUX #/ CM**2/ TAU	AVERAGED DIFFER. FLUX #/ CM**2/ SEC/ KEV
1.000-2.500	5.309E 03	4.597E 05	2.386	1.000	2.225E 02	1.923E 07	7.018E 09	6.955E-03
2.500-5.000	8.569E 00	7.404E 05	3.351	5.000	2.179E 02	1.863E 07	6.673E 09	9.057E-03
5.000-10.000	1.664E 01	1.433E 06	7.296	7.500	2.158E 02	1.864E 07	6.804E 09	6.949E-03
10.000-25.000	2.958E 01	2.550E 06	13.293	1.000	2.138E 02	1.847E 07	6.741E 09	6.091E-03
25.000-50.000	3.090E 01	2.669E 06	13.884	1.500	2.120E 02	1.832E 07	6.685E 09	3.834E-03
50.000-100.000	4.689E 01	4.052E 06	21.073	2.000	2.112E 02	1.816E 07	6.630E 09	3.551E-03
100.000-300.000	6.582E 01	5.637E 06	29.579	2.500	2.084E 02	1.801E 07	6.574E 09	3.912E-03
300.000-500.000	8.916E 00	7.703E 05	0.006	3.000	2.067E 02	1.786E 07	6.518E 09	3.689E-03
500.000-OVER	1.532E 00	1.324E 05	0.688	4.000	2.032E 02	1.756E 07	6.409E 09	3.398E-03
TOTAL	2.138E 02	1.8347E 07	96.055	5.000	1.999E 02	1.727E 07	6.303E 09	3.651E-03
***** EXPOSURE INDEX: ENERGY > 3.000 MEV *****				6.000	1.966E 02	1.699E 07	6.200E 09	3.533E-03
INTENSITY	EXPOSURE	TOTAL	# OF	8.000	1.899E 02	1.641E 07	5.990E 09	3.044E-03
RANGES	DURATION	ACCUMLATED	PARTICLES	10.000	1.836E 02	1.587E 07	5.791E 09	2.863E-03
1.00-1.01	0.200	3.508E 03		12.000	1.789E 02	1.546E 07	5.641E 09	2.620E-03
1.01-1.02	0.700	1.139E 05		15.000	1.721E 02	1.487E 07	5.426E 09	2.114E-03
1.02-1.03	1.200	1.941E 06		20.000	1.614E 02	1.395E 07	5.091E 09	1.751E-03
1.03-1.04	1.533	1.521E 07		25.000	1.541E 02	1.331E 07	4.858E 09	1.612E-03
1.04-1.05	0.0	0.0		30.000	1.471E 02	1.271E 07	4.638E 09	1.467E-03
1.05-1.06	0.0	0.0		40.000	1.345E 02	1.162E 07	4.243E 09	1.385E-03
1.06-1.07	0.0	0.0		50.000	1.232E 02	1.064E 07	3.884E 09	1.260E-03
1.07-OVER	0.0	0.0		75.000	9.665E 01	8.350E 06	3.048E 09	1.021E-03
TOTAL	24.000	1.727E 07		100.000	7.827E 01	6.593E 05	2.405E 09	7.887E-04
				150.000	4.585E 01	3.962E 06	1.446E 09	4.506E-04
				200.000	2.793E 01	2.413E 06	8.808E 08	2.720E-04
				250.000	1.703E 01	1.472E 06	5.372E 08	1.684E-04
				300.000	1.045E 01	9.027E 05	3.295E 08	1.015E-04
				350.000	6.437E 00	5.561E 05	2.630E 08	6.258E-05
				400.000	3.974E 00	3.433E 05	1.253E 08	3.767E-05
				450.000	2.465E 00	2.129E 05	7.772E 07	2.048E-05
				500.000	1.532E 00	1.324E 05	4.631E 07	1.207E-05

Table 11

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 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES APP: AE5, AE17 FOR SOLAR MINIMUM *** UNIFLUX OF 1975 **
 ** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FCR PROTONS (APB) - UF= 1.0; FOR INNER ZONE ELECTRONS (AE5) - UF= 1.0 **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1984.0 **
 ** VEHICLE - ST 2-97000 KM ** INCLINATION= 20 DEG ** PERIGEE= 600KM ** AP3GEE= 600KM ** B/L ORBIT TAPE: TD5446 ** PERIOD= 1.611 **

 ***** ELECTRONS H1 *****

***** SPECTRUM IN PERCENT DELTA ENERGY *****

***** COMPOSITE ORBIT SPECTRUM ***** TAU= 1.00 YR(S)

ENERGY RANGES #/(MEV)/SEC	AVERAGED TOTAL FLUX #/CM**2/SEC	AVERAGED TOTAL FLUX #/CM**2/DAY	SPECTRUM PERCENT	ENERGY LEVELS >(MEV)	AVERAGED INTEG.FLUX **TOTAL** #/CM**2/SEC	AVERAGED INTEG.FLUX **TOTAL** #/CM**2/DAY	**** AVERAGED INTEGRAL FLUENCE *** * TOTAL = INNER ZONE + CUTER ZONE *****			AVERAGED DIFFER.FLUX **TOTAL** #/CM**2/SEC/KEV
.1300-.2500	8.044E 04	6.953E 05	81.068	.1000	9.923E 04	8.573E 09	3.129E 12	3.129E 12	0.0	7.677E 02
.2500-.5000	1.541E 04	1.331E 05	15.525	.1250	7.488E 04	6.469E 09	2.361E 12	2.361E 12	0.0	7.301E 02
.5000-1.000	2.779E 03	2.401E 08	2.801	.1500	5.659E 04	4.890E 09	1.785E 12	1.785E 12	0.0	6.350E 02
1.000-1.500	3.761E 02	3.249E 07	3.379	.1750	4.285E 04	3.702E 09	1.351E 12	1.351E 12	0.0	5.339E 02
1.500-2.000	1.257E 02	1.086E 07	0.127	.2000	3.249E 04	2.807E 09	1.025E 12	1.025E 12	0.0	3.679E 02
2.000-3.000	9.171E 01	7.924E 06	0.092	.2500	1.879E 04	1.623E 09	5.925E 11	5.925E 11	0.0	1.601E 02
3.000-4.000	7.752E 00	6.658E 05	0.108	.3750	7.932E 03	6.854E 08	2.502E 11	2.502E 11	0.0	5.157E 01
4.000-5.000	4.563E 02	3.942E 03	0.000	.5000	3.381E 03	2.921E 08	1.066E 11	1.066E 11	0.0	1.987E 01
5.000-OVER	0.0	0.0	0.0	.6250	1.991E 03	1.720E 08	6.279E 10	6.279E 10	0.0	9.306E 00
				.7500	1.133E 03	1.023E 08	3.732E 10	3.732E 10	0.0	3.987E 00
TOTAL	9.923E 04	8.573E 09	100.000	1.000	6.013E 02	5.195E 07	1.896E 10	1.896E 10	0.0	1.526E 00
				1.250	3.675E 02	3.175E 07	1.159E 10	1.159E 10	0.0	7.242E 01
***** EXPOSURE INDEX: ENERGY>.5000 MEV *****				1.500	2.252E 02	1.945E 07	7.101E 09	7.101E 09	0.0	4.172E 01
				1.750	1.496E 02	1.292E 07	4.718E 09	4.718E 09	0.0	2.485E 01
				2.000	9.951E 01	8.556E 06	3.138E 09	3.138E 09	0.0	1.622E 01
INTENSITY	EXPOSURE	TOTAL # OF		2.250	6.729E 01	5.814E 06	2.122E 09	2.122E 09	0.0	1.273E 01
RANGES	DURATION	ACCLMULATED		2.500	4.557E 01	3.937E 06	1.437E 09	1.437E 09	0.0	1.039E 01
*/CM**2/SEC	(HOURS)	PARTICLES		2.750	1.370E 01	1.616E 06	5.896E 08	5.896E 08	0.0	6.378E 02
ZERO FLUX	19.667	0.0		3.000	7.798E 00	6.738E 05	2.459E 08	2.459E 08	0.0	2.920E 02
				3.250	2.307E 00	2.166E 05	7.908E 07	7.908E 07	0.0	1.087E 02
1.E0-1.E1	0.557	8.113E 03		3.500	8.345E 01	7.210E 04	2.632E 07	2.632E 07	0.0	4.161E 03
1.E1-1.E2	0.633	9.886E 04		3.750	2.878E 01	2.487E 04	9.077E 06	9.077E 06	0.0	1.578E 03
1.E2-1.E3	0.733	1.128E 06		4.000	4.563E 02	3.942E 03	1.439E 06	1.439E 06	0.0	2.533E 04
1.E3-1.E4	0.900	1.440E 07		4.250	1.495E 03	1.291E 02	4.714E 04	4.714E 04	0.0	3.045E 05
1.E4-1.E5	1.300	1.718E 08		4.500	0.0	0.0	0.0	0.0	0.0	0.0
1.E5-1.E6	6.289	1.647E 06		5.000	0.0	0.0	0.0	0.0	0.0	0.0
1.E6-1.E7	0.0	0.0		5.500	0.0	0.0	0.0	0.0	0.0	0.0
1.E7-OVER	0.0	0.0		6.000	0.0	0.0	0.0	0.0	0.0	0.0
				6.500	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	24.000	2.621E 08		7.000	0.0	0.0	0.0	0.0	0.0	0.0

Table 12

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AES, AE17 FOR SOLAR MINIMUM *** UNIFLUX OF 1975 ***
 ** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0; FOR INNER ZONE ELECTRONS (AES) - UF= 1.0 **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1984.0 **
 ** VEHICLE : ST 29/400 KM ** INCLINATION= 29DEG ** PERIGEE= 400KM ** APOGEE= 400KM ** B/L ORBIT TAPE: TDS446 *** PERIOD= 1.543 ***

 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >5.000MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED			ORBIT TIME	FIELD(B)	LINE(L)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
		LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)	(HOURS)	(GAUSS)	(E.R.)	
1	0.0	-93.364	3.78	400.01	0.03333	0.27871	1.14	0.0
2	0.0	-117.700	3.34	400.00	1.56667	0.27370	1.09	0.0
3	0.0	-142.036	2.89	400.00	3.10000	0.27075	1.06	0.0
4	0.0	-166.370	2.44	399.97	4.63333	0.27584	1.04	0.0
5	4.938E 00	33.166	-26.15	391.92	7.20000	0.25880	1.65	7.360E 02
6	1.097E 02	16.709	-27.43	393.12	8.76667	0.24903	1.69	7.034E 04
7	6.484E 02	-23.686	-23.69	390.15	10.23333	0.21857	1.35	4.483E 05
8	1.129E 03	-32.395	-27.12	392.72	11.83333	0.21128	1.34	7.912E 05
9	1.590E 03	-40.402	-28.70	394.85	13.43333	0.20624	1.31	8.382E 05
10	1.446E 03	-40.020	-27.18	397.24	15.06667	0.20542	1.29	6.323E 05
11	9.218E 02	-48.738	-23.78	398.07	16.66664	0.20041	1.21	3.981E 05
12	4.731E 02	-58.428	-18.88	398.57	18.26666	0.20235	1.16	1.704E 05
13	7.375E 00	-62.465	-9.38	398.95	19.89999	0.21817	1.15	1.412E 03
14	0.0	-70.578	9.10	399.78	20.06667	0.25143	1.12	0.0
15	0.0	-54.922	8.67	399.75	21.59999	0.27317	1.25	0.0

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AES, AE17 FOR SOLAR MINIMUM *** UNIFLUX OF 1975 ***
 ** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0; FOR INNER ZONE ELECTRONS (AES) - UF= 1.0 **
 ** MAGNETIC COORDINATES B AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1984.0 **
 ** VEHICLE : ST 29/400 KM ** INCLINATION= 29DEG ** PERIGEE= 400KM ** APOGEE= 400KM ** B/L ORBIT TAPE: TDS446 *** PERIOD= 1.543 ***

 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >5.000MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED			ORBIT TIME	FIELD(B)	LINE(L)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
		LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)	(HOURS)	(GAUSS)	(E.R.)	
1	0.0	-93.364	3.78	400.01	0.03333	0.27871	1.14	0.0
2	0.0	-117.700	3.34	400.00	1.56667	0.27370	1.09	0.0
3	0.0	-142.036	2.89	400.00	3.10000	0.27075	1.06	0.0
4	0.0	-166.370	2.44	399.97	4.63333	0.27584	1.04	0.0
5	1.701E 00	-22.859	-1.78	383.78	6.53333	0.23111	1.11	2.041E 02
6	4.484E 03	16.709	-27.43	393.12	8.76667	0.24903	1.69	1.788E 06
7	2.242E 04	-23.686	-23.69	390.15	10.23333	0.22582	1.45	9.027E 06
8	3.425E 04	-32.395	-27.12	392.72	11.83333	0.21846	1.43	1.389E 07
9	3.597E 04	-40.402	-28.70	394.85	13.43333	0.21863	1.43	1.445E 07
10	6.517E 03	-40.020	-27.18	397.24	15.06667	0.21067	1.32	2.756E 06
11	9.181E 02	-48.738	-23.78	398.07	16.66664	0.20041	1.21	3.225E 05
12	2.532E 02	-58.428	-18.88	398.57	18.26666	0.20235	1.16	9.800E 04
13	2.168E 01	-69.048	-12.88	398.81	19.86664	0.21640	1.14	7.815E 03
14	0.0	-70.578	9.10	399.78	20.06667	0.25143	1.12	0.0
15	0.0	-54.922	8.67	399.75	21.59999	0.27317	1.25	0.0

Table 13

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 *** UNIFLUX OF 1975 ***
 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AES, AE17 FOR SOLAR-MINIMUM ***
 ** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0; FOR INNER ZONE ELECTRONS (AES) - UF= 1.0 **
 ** MAGNETIC COORDINATES H AND L COMPUTED BY INVARA OF 1972 WITH ALL MAG. MODEL 4: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1984.0 **
 ** VEHICLE : ST 29/500 KM ** INCLINATION= 29DEG ** PERIGEE= 500KM ** APOGEE= 500KM ** 87L ORBIT TAPE: TC5446 ** PERIOD= 1.577 **

 ***** PROTONS *****
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >5.000MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED			ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/OREIT
		LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)				
1	0.0	-93.513	3.70	500.01	0.03333	0.26610	1.16	0.0
2	0.0	-118.514	3.16	500.01	1.60000	0.26116	1.10	0.0
3	0.0	-143.515	2.62	500.00	3.16667	0.25876	1.07	0.0
4	0.0	-168.514	2.07	499.97	4.73333	0.26476	1.06	0.0
5	1.050E 02	32.216	-25.44	492.36	7.36666	0.24865	1.68	3.735E 04
6	6.331E 02	-15.295	-19.38	488.08	8.83333	0.21818	1.35	5.284E 05
7	1.654E 03	-25.915	-24.02	490.56	10.46667	0.20780	1.36	1.324E 06
8	2.824E 03	-27.602	-23.26	494.23	12.13333	0.20731	1.42	1.886E 06
9	3.111E 03	-44.741	-28.70	494.99	13.73333	0.19675	1.30	1.946E 06
10	2.734E 03	-37.785	-25.78	497.89	15.43333	0.19843	1.30	1.408E 06
11	1.645E 03	-55.371	-24.13	498.12	17.03333	0.19307	1.21	9.333E 05
12	1.030E 03	-59.112	-16.58	498.80	18.70000	0.19647	1.17	4.680E 05
13	4.777E 01	-71.023	-10.50	498.95	20.33331	0.21323	1.15	7.590E 03
14	0.0	-33.525	11.06	499.90	20.53331	0.24800	1.16	0.0
15	0.0	-58.551	10.56	499.88	22.09999	0.27395	1.32	0.0

 *** UNIFLUX OF 1975 ***
 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AES, AE17 FOR SOLAR-MINIMUM ***
 ** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0; FOR INNER ZONE ELECTRONS (AES) - UF= 1.0 **
 ** MAGNETIC COORDINATES H AND L COMPUTED BY INVARA OF 1972 WITH ALL MAG. MODEL 4: BARRACLOUGH ET. AL. 168-TERM 1975. * TIME= 1984.0 **
 ** VEHICLE : ST 29/500 KM ** INCLINATION= 29DEG ** PERIGEE= 500KM ** APOGEE= 500KM ** 87L ORBIT TAPE: TC5446 ** PERIOD= 1.577 **

 ***** ELECTRONS HI *****
 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >5.000MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED			ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/OREIT
		LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)				
1	0.0	-93.513	3.70	500.01	0.03333	0.26610	1.16	0.0
2	0.0	-118.514	3.16	500.01	1.60000	0.26116	1.10	0.0
3	0.0	-143.515	2.62	500.00	3.16667	0.25876	1.07	0.0
4	0.0	-168.514	2.07	499.97	4.73333	0.26476	1.06	0.0
5	1.063E 03	32.216	-25.44	492.36	7.36666	0.24865	1.68	1.217E 06
6	2.016E 04	-8.140	-22.04	499.39	8.86666	0.22472	1.44	9.588E 06
7	6.890E 04	-19.265	-25.95	491.91	10.50000	0.21473	1.45	2.479E 07
8	8.326E 04	-27.602	-28.26	494.23	12.13333	0.20731	1.42	3.722E 07
9	8.560E 04	-24.394	-28.17	496.89	13.80000	0.20644	1.41	4.225E 07
10	2.248E 04	-37.785	-25.78	497.89	15.43333	0.19843	1.30	9.886E 06
11	3.241E 03	-47.791	-21.80	498.47	17.06667	0.19285	1.22	1.357E 06
12	6.003E 02	-59.112	-16.58	498.80	18.70000	0.19647	1.17	2.587E 05
13	4.308E 01	-71.023	-10.50	499.95	20.33331	0.21323	1.15	1.404E 04
14	1.332E 00	-98.050	-11.01	498.77	21.89999	0.23229	1.10	2.400E 02
15	0.0	-58.551	10.56	499.88	22.09999	0.27395	1.32	0.0

Table 14

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AES, AE17 FOR SOLAR MINIMUM *** UNIFLUX OF 1975 **
 ** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0; FOR INNER ZONE ELECTRONS (AES) - UF= 1.0 **
 ** MAGNETIC COORDINATES U AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1984.0 **
 ** VEHICLE: ST-297600-KM ** INCLINATION= 29DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** B/L ORBIT TAPE: T05445 ** PERIOD= 1.611 **

 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >5.000MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/OREIT
1	0.0	-93.656	3.62	600.02	0.03333	0.25426	1.18	0.0
2	0.0	-119.365	2.96	600.01	1.63333	0.24934	1.12	0.0
3	0.0	-145.072	2.30	600.00	3.23333	0.24752	1.09	0.0
4	1.097E 01	41.827	-23.27	590.23	5.86666	0.25058	1.56	3.118E 03
5	4.036E 02	23.337	-24.96	591.39	7.50000	0.23577	1.64	3.844E 05
6	1.760E 03	16.662	-19.86	588.60	9.03333	0.20742	1.36	1.572E 06
7	3.208E 03	-28.586	-24.22	590.88	10.70000	0.19747	1.36	2.839E 06
8	5.313E 03	-31.545	-28.26	594.37	12.40000	0.19663	1.40	3.594E 06
9	4.781E 03	-34.660	-28.26	595.92	14.10000	0.19500	1.38	3.468E 06
10	4.225E 03	-35.648	-24.23	598.35	15.80000	0.19105	1.31	2.692E 06
11	2.661E 03	-48.313	-19.88	598.75	17.46666	0.18565	1.22	1.763E 06
12	1.554E 03	-60.796	-14.53	598.97	19.13332	0.19164	1.18	9.145E 05
13	1.159E 02	-73.930	-8.49	599.05	20.79999	0.21056	1.16	3.901E 04
14	0.0	-93.657	3.62	599.83	20.96666	0.23923	1.22	0.0

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AES, AE17 FOR SOLAR MINIMUM *** UNIFLUX OF 1975 **
 ** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0; FOR INNER ZONE ELECTRONS (AES) - UF= 1.0 **
 ** MAGNETIC COORDINATES U AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: BARRACLOUGH ET. AL. 168-TERM 1975 * TIME= 1984.0 **
 ** VEHICLE: ST-297600-KM ** INCLINATION= 29DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** B/L ORBIT TAPE: T05446 ** PERIOD= 1.611 **

 ** TABLE OF PEAK AND TOTAL FLUXES PER PERIOD : ENERGY >5.000MEV **

PERIOD NUMBER	PEAK FLUX ENCOUNTERED #/CM**2/SEC	POSITION AT WHICH ENCOUNTERED LONGITUDE (DEG)	LATITUDE (DEG)	ALTITUDE (KM)	ORBIT TIME (HOURS)	FIELD(B) (GAUSS)	LINE(L) (E.R.)	TOTAL FLUX PER ORBIT #/CM**2/ORBIT
1	0.0	-93.656	3.62	600.02	0.03333	0.25426	1.18	0.0
2	0.0	-119.365	2.96	600.01	1.63333	0.24934	1.12	0.0
3	0.0	-145.072	2.30	600.00	3.23333	0.24752	1.09	0.0
4	2.331E 02	34.799	-20.84	588.91	5.85333	0.24429	1.50	4.206E 04
5	1.603E 04	8.919	-23.35	588.74	7.43333	0.23117	1.48	7.818E 06
6	1.401E 04	9.920	-22.44	589.79	9.06667	0.21375	1.45	2.767E 07
7	1.323E 05	-21.091	-26.08	592.20	10.73333	0.20400	1.44	5.493E 07
8	1.811E 05	-31.545	-28.26	594.37	12.40000	0.19663	1.40	8.123E 07
9	1.479E 05	-25.805	-27.26	597.82	14.13333	0.20017	1.43	8.842E 07
10	5.220E 04	-35.648	-24.23	598.35	15.80000	0.19105	1.31	2.631E 07
11	3.011E 04	-48.313	-19.88	598.75	17.46666	0.18565	1.22	4.631E 06
12	1.554E 03	-60.796	-14.53	598.97	19.13332	0.19164	1.18	7.452E 05
13	1.206E 01	-73.930	-8.49	599.05	20.79999	0.21056	1.16	2.784E 04
14	3.405E 06	-93.659	3.12	598.98	22.39999	0.22616	1.11	8.400E 02

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Table 15

TABLE _

ST 29/400 KM
CIRCULAR
INCLINATION: 29 DEG
PERIGEE: 400 KM
APOGEE: 400 KM

*** EXPOSURE ANALYSIS ***

	PROTONS (E>5.000MEV)	ELECTRONS HI (E>0.5000MEV)
PERCENT OF TOTAL LIFE- TIME SPENT IN FLUX-FREE REGIONS* OF SPACE :	90.00 %	89.03 %
PERCENT OF TOTAL LIFE- TIME SPENT IN HIGH- INTENSITY REGIONS* OF VAN ALLEN BELTS :	0.97 %	0.0 %
PERCENT OF TOTAL DAILY FLUX ACCUMULATED IN HIGH-INTENSITY REGIONS:	31.65 %	0.0 %

* <1 PARTICLE/CM**2/SEC

+ >1.05 EL/CM**2/SEC OR 1.03 PR/CM**2/SEC

TABLE _

ST 29/400 KM
CIRCULAR
INCLINATION: 29 DEG
PERIGEE: 400 KM
APOGEE: 400 KM

* PERCENT OF TOTAL LIFETIME SPENT INSIDE AND *
* OUTSIDE THE TRAPPED-PARTICLE RADIATION BELT *

INNER ZONE -TI-*	: 100.00 %
(1.0 < L < 2.8)	
OUTER ZONE -TE-	: 0.0 %
(2.8 < L < 11.0)	
EXTERNAL -TE-	: 0.0 %
(L > 11.0)	
TOTAL	: 100.00 %

*TIME IN INNER ZONE MAY BE SUBDIVIDED AS FOLLOWS:

OUTSIDE TRAPPING REGION :	26.53 %
(1.0 < L < 1.1)	
INSIDE TRAPPING REGION :	73.47 %
(1.1 < L < 2.8)	

ST 29/500 KM
CIRCULAR
INCLINATION: 29 DEG
PERIGEE: 500 KM
APOGEE: 510 KM

TABLE _

*** EXPOSURE ANALYSIS ***

	PROTONS (E>3.000MEV)	ELECTRONS HI (E>.5000MEV)
PERCENT OF TOTAL LIFE- TIME SPENT IN FLUX-FREE REGIONS* OF SPACE :	96.94 %	85.83 %
PERCENT OF TOTAL LIFE- TIME SPENT IN HIGH- INTENSITY REGIONS+ OF VAN ALLEN BELTS :	4.17 %	0.0 %
PERCENT OF TOTAL DAILY FLUX ACCUMULATED IN HIGH-INTENSITY REGIONS:	72.84 %	0.0 %

* <1 PARTICLE/CM**2/SEC
+ >1.05 EL/CM**2/SEC OR 1.03 PR/CM**2/SEC

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ST 29/500 KM
CIRCULAR
INCLINATION: 29 DEG
PERIGEE: 500 KM
APOGEE: 500 KM

TABLE _

* PERCENT OF TOTAL LIFETIME SPENT INSIDE AND *
* OUTSIDE THE TRAPPED-PARTICLE RADIATION BELT *

INNER ZONE -TI- :	100.00 %
(1.0 < L < 2.8)	
OUTER ZONE -TO- :	0.0 %
(2.8 < L < 11.0)	
EXTERNAL -TE- :	0.0 %
(L > 11.0)	
TOTAL :	100.00 %

*TIME IN INNER ZONE MAY BE SUBDIVIDED AS FOLLOWS:

OUTSIDE TRAPPING REGION :	22.36 %
(1.0 < L < 1.1)	
INSIDE TRAPPING REGION :	77.64 %
(1.1 < L < 2.8)	

Table 17

TABLE

TABLE

ST 29/600 KM
CIRCULAR
INCLINATION: 29 DEG
PERIGEE: 600 KM
APOGEE: 600 KM

ST 29/600 KM
CIRCULAR
INCLINATION: 29 DEG
PERIGEE: 600 KM
APOGEE: 600 KM

*** EXPOSURE ANALYSIS ***

* PERCENT OF TOTAL LIFETIME SPENT INSIDE AND *

* OUTSIDE THE TRAPPED-PARTICLE RADIATION BELT *

	PROTONS (E>5.000MEV)	ELECTRONS HI (E>5000MEV)
PERCENT OF TOTAL LIFE- TIME SPENT IN FLUX-FREE REGIONS* OF SPACE :	82.61 %	81.94 %
PERCENT OF TOTAL LIFE- TIME SPENT IN HIGH- INTENSITY REGIONS* OF VAN ALLEN BELTS :	7.64 %	0.83 %
PERCENT OF TOTAL DAILY FLUX ACCUMULATED IN HIGH INTENSITY REGIONS:	86.19 %	35.84 %

INNER ZONE -TI- : 100.00 %

(1.0 < L < 2.8)

OUTER ZONE -TO- : 0.0 %

(2.8 < L < 11.0)

EXTERNAL -TE- : 0.0 %

(L > 11.0)

TOTAL : 100.00 %

*TIME IN INNER ZONE MAY BE SUBDIVIDED AS FOLLOWS:

OUTSIDE TRAPPING REGION : 17.64 %

(1.0 < L < 1.1)

INSIDE TRAPPING REGION : 82.36 %

(1.1 < L < 2.8)

* <1 PARTICLE/CM**2/SEC

+ >1.E5 EL/CM**2/SEC OR 1.E3 PR/CM**2/SEC

Table 18

***** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8; AES; AE17 FOR SOLAR MINIMUM *** UNIELUX OF 1975 ***
 ** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0; FOR INNER ZONE ELECTRONS (AES) - UF= 1.0 **
 ** MAGNETIC COORDINATES E AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4; BARRACLOUGH ET AL. 168-TRM 1975 * TIME= 1984.0 **
 ** VEHICLE : ST 297400 KM ** INCLINATION= 29DEG ** PERIGEE= 400KM ** APOGEE= 400KM ** 87L ORBIT TAPE: ID8448 ** PERIOD= 1.543 **

***** ALUMINUM DOSE FOR MISSION DURATION OF: 1.00 YEAR(S) *****

SHIELD THICKNESS (ALUMINUM)			ELECTRONS*			BREMSSTR- AHLUNG	PROTONS			TOTAL DOSE
Z (GM/CM**2)	T (MM)	T (MILS)	INNER ZN. (RADS-AL)	OUTER ZN. (RADS-AL)	TOTAL (RADS-AL)	TOTAL (RADS-AL)	TRAPPED** (RADS-AL)	SOLAR+ (RADS-AL)	TOTAL (RADS-AL)	ALL SOURCES (RADS-AL)
0.01	0.04	1	7.742E 03	0.0	7.742E 03	0.0	6.226E 01	0.0	6.226E 01	7.804E 03
0.05	0.19	7	9.477E 02	0.0	9.477E 02	1.043E-01	5.140E 01	0.0	5.140E 01	9.992E 02
0.10	0.37	15	2.870E 02	0.0	2.870E 02	8.434E-02	4.510E 01	0.0	4.510E 01	3.322E 02
0.25	0.93	36	4.398E 01	0.0	4.398E 01	6.466E-02	3.657E 01	0.0	3.657E 01	8.061E 01
0.50	1.85	73	9.794E 00	0.0	9.794E 00	5.217E-02	3.132E 01	0.0	3.132E 01	4.116E 01
1.00	3.70	146	9.833E-01	0.0	9.833E-01	4.119E-02	2.707E 01	0.0	2.707E 01	2.809E 01
1.50	5.56	219	4.756E-02	0.0	4.796E-02	3.535E-02	2.447E 01	0.0	2.447E 01	2.456E 01
2.00	7.41	292	1.771E-03	0.0	1.771E-03	3.141E-02	2.246E 01	0.0	2.246E 01	2.250E 01
3.00	11.11	437	4.826E-06	0.0	4.826E-06	2.604E-02	1.935E 01	0.0	1.935E 01	1.938E 01
5.00	18.52	729	8.697E-11	0.0	8.697E-11	1.935E-02	1.523E 01	0.0	1.523E 01	1.525E 01
10.00	37.04	1458	1.607E-23	0.0	1.607E-23	1.036E-02	9.560E 00	0.0	9.560E 00	9.571E 00
20.00	74.07	2916	4.862E-59	0.0	4.862E-59	3.206E-03	5.152E 00	0.0	5.152E 00	5.155E 00
30.00	111.11	4374	0.0	0.0	0.0	1.000E-03	3.177E 00	0.0	3.177E 00	3.178E 00
40.00	148.15	5833	0.0	0.0	0.0	3.113E-04	2.106E 00	0.0	2.106E 00	2.106E 00
50.00	185.19	7291	0.0	0.0	0.0	9.672E-05	1.451E 00	0.0	1.451E 00	1.451E 00

* ELECTRON MODELS:

AES: INNER ZONE-SOLAR MIN
 NO UNCERTAINTY FACTOR WAS APPLIED TO THE MODEL DATA.

AE17: OUTER ZONE-INTERIM MODEL WITHOUT SOLAR CYCLE DEPENDENCE.
 FOR ENERGIES ABOVE 1.5 MEV, THIS MODEL CONTAINS UPPER &
 LOWER LIMIT VALUES TO ACCOUNT FOR DISCREPANCY BETWEEN
 EXISTING DATA SETS. THE AE17-HI FAVORS VAMPOLA'S FIT
 TO OV1-19 DATA WHILE AE17-LO IS MORE REPRESENTATIVE OF
 ALL THE DATA SETS PRESENTLY AVAILABLE TO NSSDC.

>> THE AE17-HI VERSION WAS USED FOR THESE CALCULATIONS <<

** PROTON MODEL:

AP8-MIC: TRAPPED PROTONS-SOLAR MIN
 NO UNCERTAINTY FACTOR WAS APPLIED TO THE MODEL DATA.

* SOLAR PROTON MODEL:

SOLPRO: SOLAR FLARE PROTONS AT 1 AU
 (UNATTENUATED, INTERPLANETARY)
 FOR CUTOFF DIPOLE SHELL OF 5 E.R.

FOR 1AU=12.00, Q=90%: # OF AL EVENTS=1
 100.00% GEOMAGNETIC SHIELDING APPLIED

NOTE: 0 DENOTES THE DEGREE OF CONFIDENCE ONE WISHES
 TO ASSIGN TO RESULTS, NAMELY THAT FOR THE
 SPECIFIC MISSION DURATION THE CALCULATED
 FLUENCES ARE THE SMALLEST VALUES WHICH WILL
 NOT BE EXCEEDED BY ACTUALLY ENCOUNTERED
 INTENSITIES.

IT IS NOT ADVISABLE TO EXTRAPOLATE THE SOLAR
 PROTON SPECTRA NEITHER TOWARDS LOWER NOR
 TOWARDS HIGHER ENERGIES BECAUSE THE DATA SETS
 USED IN THE CONSTRUCTION OF THE MODEL (SATEL-
 LITE MEASUREMENTS MADE DURING THE 20TH SOLAR
 CYCLE: 1964-1975) DO NOT CONTAIN INFORMATION
 FOR E<10 AND E>200 MEV.

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Table 19

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES APB: AES: AE17 FOR SOLAR MINIMUM *** UNIFLUX OF 1975 **
 ** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PRCTNS (APB) - UF= 1.0; FOR INNER ZONE ELECTRONS (AES) - UF= 1.0 **
 ** MAGNETIC COORDINATES E AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: BARRACLOUGH ET AL. 168-TRM 1975 * TIME= 1584.0 **
 ** VEHICLE: ST 297500 KM ** INCLINATION= 29DEG ** PERIGEE= 500KM ** APOGEE= 500KM ** B7L ORBIT TAPE: IDS446 ** PERIOD= 1.377 **

 **** ALUMINUM DOSE FOR MISSION DURATION OF: 1.00 YEAR(S) ****

SHIELD THICKNESS (ALUMINUM)			ELECTRONS*			BREMSSTR- AHLUNG	PROTONS			TOTAL DOSE
Z	T	T	INNER ZN.	OUTER ZN.	TOTAL	TOTAL	TRAPPED**	SOLAR+	TOTAL	ALL SOURCES
(GM/CM**2)	(MM)	(MILS)	(RADS-AL)	(RADS-AL)	(RADS-AL)	(RADS-AL)	(RADS-AL)	(RADS-AL)	(RADS-AL)	(RADS-AL)
0.01	0.04	1	2.338E 04	0.0	2.338E 04	0.0	1.753E 02	0.0	1.753E 02	2.356E 04
0.05	0.19	7	2.924E 03	0.0	2.924E 03	3.189E-01	1.413E 02	0.0	1.413E 02	3.066E 03
0.10	0.37	15	4.811E 02	0.0	4.811E 02	2.576E-01	1.219E 02	0.0	1.219E 02	1.003E 03
0.25	0.93	36	1.318E 02	0.0	1.318E 02	1.974E-01	9.717E 01	0.0	9.717E 01	2.291E 02
0.50	1.85	73	2.886E 01	0.0	2.886E 01	1.592E-01	8.087E 01	0.0	8.087E 01	1.099E 02
1.00	3.70	146	2.880E 00	0.0	2.880E 00	1.257E-01	6.802E 01	0.0	6.802E 01	7.102E 01
1.50	5.56	219	1.341E-01	0.0	1.341E-01	1.079E-01	6.084E 01	0.0	6.084E 01	6.108E 01
2.00	7.41	292	2.898E-03	0.0	2.898E-03	9.589E-02	5.546E 01	0.0	5.546E 01	5.556E 01
3.00	11.11	437	6.439E-07	0.0	6.439E-07	7.948E-02	4.737E 01	0.0	4.737E 01	4.745E 01
5.00	18.52	729	1.005E-13	0.0	1.005E-13	5.907E-02	3.699E 01	0.0	3.699E 01	3.705E 01
10.00	37.04	1458	2.067E-31	0.0	2.067E-31	3.165E-02	2.309E 01	0.0	2.309E 01	2.313E 01
20.00	74.07	2916	7.268E-77	0.0	7.268E-77	9.818E-03	1.255E 01	0.0	1.255E 01	1.256E 01
30.00	111.11	4374	0.0	0.0	0.0	3.069E-03	7.843E 00	0.0	7.843E 00	7.846E 00
40.00	148.15	5833	0.0	0.0	0.0	9.578E-04	5.278E 00	0.0	5.278E 00	5.279E 00
50.00	185.19	7291	0.0	0.0	0.0	2.983E-04	3.690E 00	0.0	3.690E 00	3.690E 00

* ELECTRON MODELS:

AE5: INNER ZONE-SOLAR MIN
 NO UNCERTAINTY FACTOR WAS APPLIED TO THE MODEL DATA.

AE17: OUTER ZONE-INTERIM MODEL WITHOUT SOLAR CYCLE DEPENDENCE.
 FOR ENERGIES ABOVE 1.5 MEV. THIS MODEL CONTAINS UPPER &
 LOWER LIMIT VALUES TO ACCOUNT FOR DISCREPANCY BETWEEN
 EXISTING DATA SETS. THE AE17-HI FAVORS VAMPOLA'S FIT
 TO OVI-19 DATA WHILE AE17-LO IS MORE REPRESENTATIVE OF
 ALL THE DATA SETS PRESENTLY AVAILABLE TO NSSDC.

>> THE AE17-HI VERSION WAS USED FOR THESE CALCULATIONS <<

** PROTON MODEL:

APB-MIC: TRAPPED PROTONS-SOLAR MIN
 NO UNCERTAINTY FACTOR WAS APPLIED TO THE MODEL DATA.

+ SOLAR PROTON MODEL:

SOLPRO: SOLAR FLARE PROTONS AT 1 AU
 (UNATTENUATED, INTERPLANETARY)
 FOR CUTOFF DIPOLE SHELL OF 5 E.R.

FOR TAU=12.00, Q=50% # OF AL EVENTS=1
 100.00% GEOMAGNETIC SHIELDING APPLIED

NOTE: Q DENOTES THE DEGREE OF CONFIDENCE ONE WISHES
 TO ASSIGN TO RESULTS, NAMELY THAT FOR THE
 SPECIFIC MISSION DURATION THE CALCULATED
 FLUENCES ARE THE SMALLEST VALUES WHICH WILL
 NOT BE EXCEEDED BY ACTUALLY ENCOUNTERED
 INTENSITIES.

IT IS NOT ADVISABLE TO EXTRAPOLATE THE SOLAR
 PROTON SPECTRA NEITHER TOWARDS LOWER NOR
 TOWARDS HIGHER ENERGIES BECAUSE THE DATA SETS
 USED IN THE CONSTRUCTION OF THE MODEL (SATEL-
 LITE MEASUREMENTS MADE DURING THE 20TH SOLAR
 CYCLE: 1964-1975) DO NOT CONTAIN INFORMATION
 FOR <10 AND >200 MEV.

Table 20

 ** ORBITAL FLUX STUDY WITH COMPOSITE PARTICLE ENVIRONMENTS: VETTES AP8: AES, AE17 FOR SOLAR ALUMINUM *** UNIELUX OF 1975 **
 ** UNCERTAINTY FACTORS (UF) APPLIED FOR THIS RUN ARE: FOR PROTONS (AP8) - UF= 1.0; FOR INNER ZONE ELECTRONS (AES) - UF= 1.0 **
 ** MAGNETIC COORDINATES E AND L COMPUTED BY INVARA OF 1972 WITH ALLMAG, MODEL 4: BARRACLOUGH ET AL. 168-TRM 1975 * TIME= 1984.0 **
 ** VEHICLE: ST 297600 KM ** INCLINATION= 29DEG ** PERIGEE= 600KM ** APOGEE= 600KM ** 87L ORBIT TYPE: TDS** ** PERIOD= 1.611 **

 ***** ALUMINUM DOSE FOR MISSION DURATION OF: 1.00 YEAR(S) *****

SHIELD THICKNESS (ALUMINUM)			ELECTRONS*			BREMSSTR- AHLUNG	PROTONS			TOTAL DOSE
Z (GM/CM**2)	T (MM)	T (MILS)	INNER ZN. (RADS-AL)	OUTER ZN. (RADS-AL)	TOTAL (RADS-AL)	TOTAL (RADS-AL)	TRAPPED** (RADS-AL)	SOLAR+ (RADS-AL)	TOTAL (RADS-AL)	ALL SOURCES (RADS-AL)
0.01	0.04	1	5.261E 04	0.0	5.261E 04	0.0	3.827E 02	0.0	3.827E 02	5.299E 04
0.05	0.19	7	6.794E 03	0.0	6.794E 03	7.318E-01	3.030E 02	0.0	3.030E 02	7.098E 03
0.10	0.37	15	2.029E 03	0.0	2.029E 03	5.903E-01	2.574E 02	0.0	2.574E 02	2.574E 03
0.25	0.93	36	2.971E 02	0.0	2.971E 02	4.522E-01	2.004E 02	0.0	2.004E 02	4.980E 02
0.50	1.85	73	6.392E 01	0.0	6.392E 01	3.647E-01	1.630E 02	0.0	1.630E 02	2.273E 02
1.00	3.70	146	6.325E 00	0.0	6.325E 00	2.879E-01	1.342E 02	0.0	1.342E 02	1.408E 02
1.50	5.56	219	2.928E-01	0.0	2.928E-01	2.471E-01	1.192E 02	0.0	1.192E 02	1.197E 02
2.00	7.41	292	5.665E-03	0.0	5.665E-03	2.195E-01	1.082E 02	0.0	1.082E 02	1.085E 02
3.00	11.11	437	1.102E-07	0.0	1.102E-07	1.820E-01	9.218E 01	0.0	9.218E 01	9.237E 01
5.00	18.52	729	2.471E-17	0.0	2.471E-17	1.353E-01	7.199E 01	0.0	7.199E 01	7.213E 01
10.00	37.04	1458	1.300E-41	0.0	1.300E-41	7.260E-02	4.526E 01	0.0	4.526E 01	4.535E 01
20.00	74.07	2916	0.0	0.0	0.0	2.260E-02	2.496E 01	0.0	2.496E 01	2.498E 01
30.00	111.11	4374	0.0	0.0	0.0	7.091E-03	1.582E 01	0.0	1.582E 01	1.583E 01
40.00	148.15	5833	0.0	0.0	0.0	2.221E-03	1.080E 01	0.0	1.080E 01	1.080E 01
50.00	185.19	7291	0.0	0.0	0.0	6.945E-04	7.647E 00	0.0	7.647E 00	7.648E 00

* ELECTRON MODELS:

AE5: INNER ZONE-SOLAR MIN
 NO UNCERTAINTY FACTOR WAS APPLIED TO THE MODEL DATA.

AE17: OUTER ZONE-INTERIM MODEL WITHOUT SOLAR CYCLE DEPENDENCE.
 FOR ENERGIES ABOVE 1.5 MEV, THIS MODEL CONTAINS UPPER &
 LOWER LIMIT VALUES TO ACCOUNT FOR DISCREPANCY BETWEEN
 EXISTING DATA SETS. THE AE17-HI FAVORS VAMPOLA'S FIT
 TO GVI-19 DATA WHILE AE17-LO IS MORE REPRESENTATIVE OF
 ALL THE DATA SETS PRESENTLY AVAILABLE TO NSSDC.

>> THE AE17-HI VERSION WAS USED FOR THESE CALCULATIONS <<

* SOLAR PROTON MODEL:

SOLPRO: SOLAR FLARE PROTONS AT 1 AU
 (UNATTENUATED, INTERPLANETARY)
 FOR CUTOFF DIPOLE SHELL OF 5 E.R.

FOR 1AU-12.00-90%: # OF AL EVENTS=1
 100.00% GEOMAGNETIC SHIELDING APPLIED

NOTE: Q DENOTES THE DEGREE OF CONFIDENCE ONE WISHES
 TO ASSIGN TO RESULTS, NAMELY THAT FOR THE
 SPECIFIC MISSION DURATION THE CALCULATED
 FLUENCES ARE THE SMALLEST VALUES WHICH WILL
 NOT BE EXCEEDED BY ACTUALLY ENCOUNTERED
 INTENSITIES.

** PROTON MODEL:

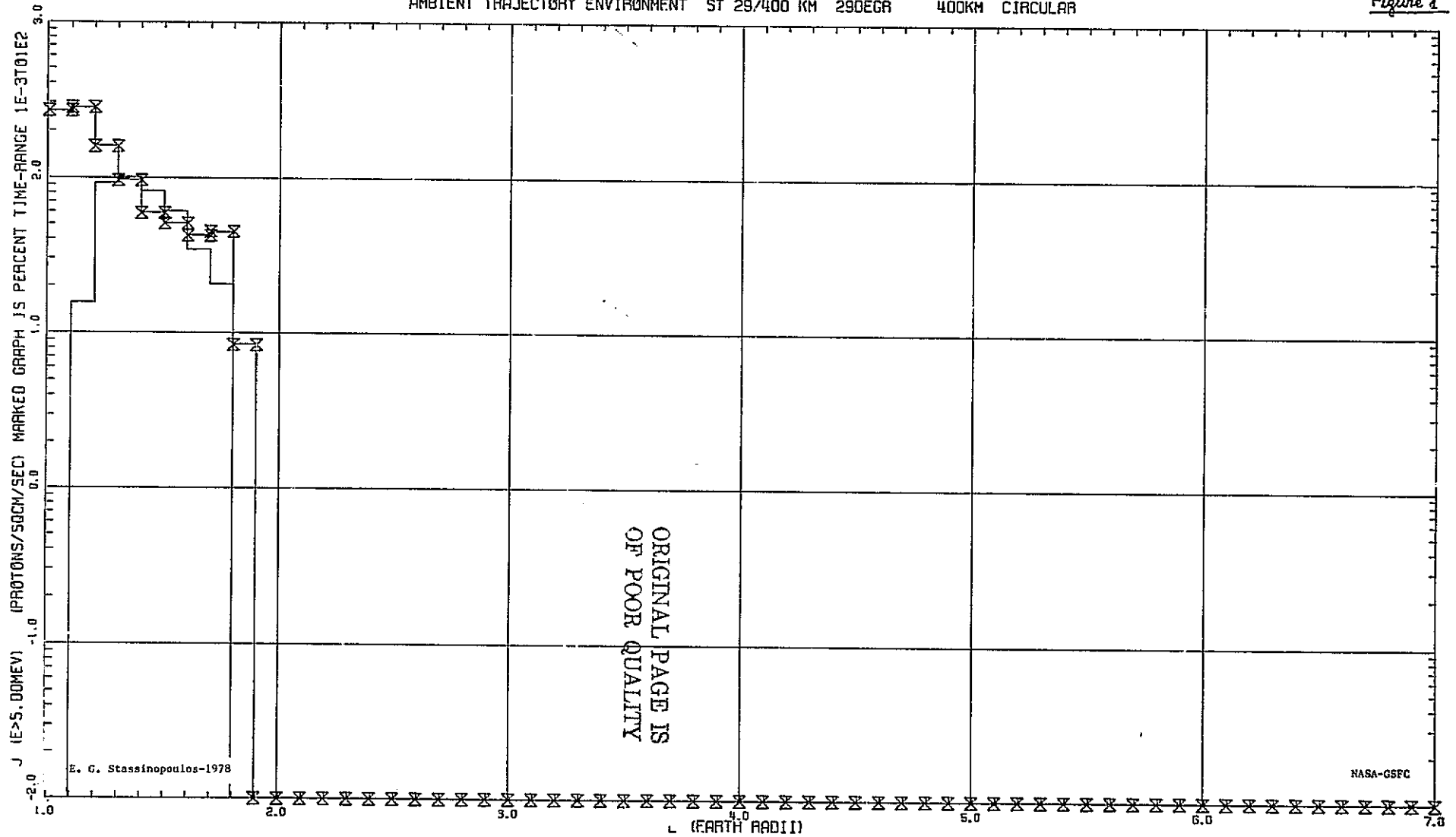
AP8-MIC: TRAPPED PROTONS-SOLAR MIN
 NO UNCERTAINTY FACTOR WAS APPLIED TO THE MODEL DATA.

IT IS NOT ADVISABLE TO EXTRAPOLATE THE SOLAR
 PROTON SPECTRA NEITHER TOWARDS LOWER NOR
 TOWARDS HIGHER ENERGIES BECAUSE THE DATA SETS
 USED IN THE CONSTRUCTION OF THE MODEL (SATEL-
 LITE MEASUREMENTS MADE DURING THE 20TH SOLAR
 CYCLE: 1964-1975) DO NOT CONTAIN INFORMATION
 FOR E<10 AND E>200 MEV.

Table 21

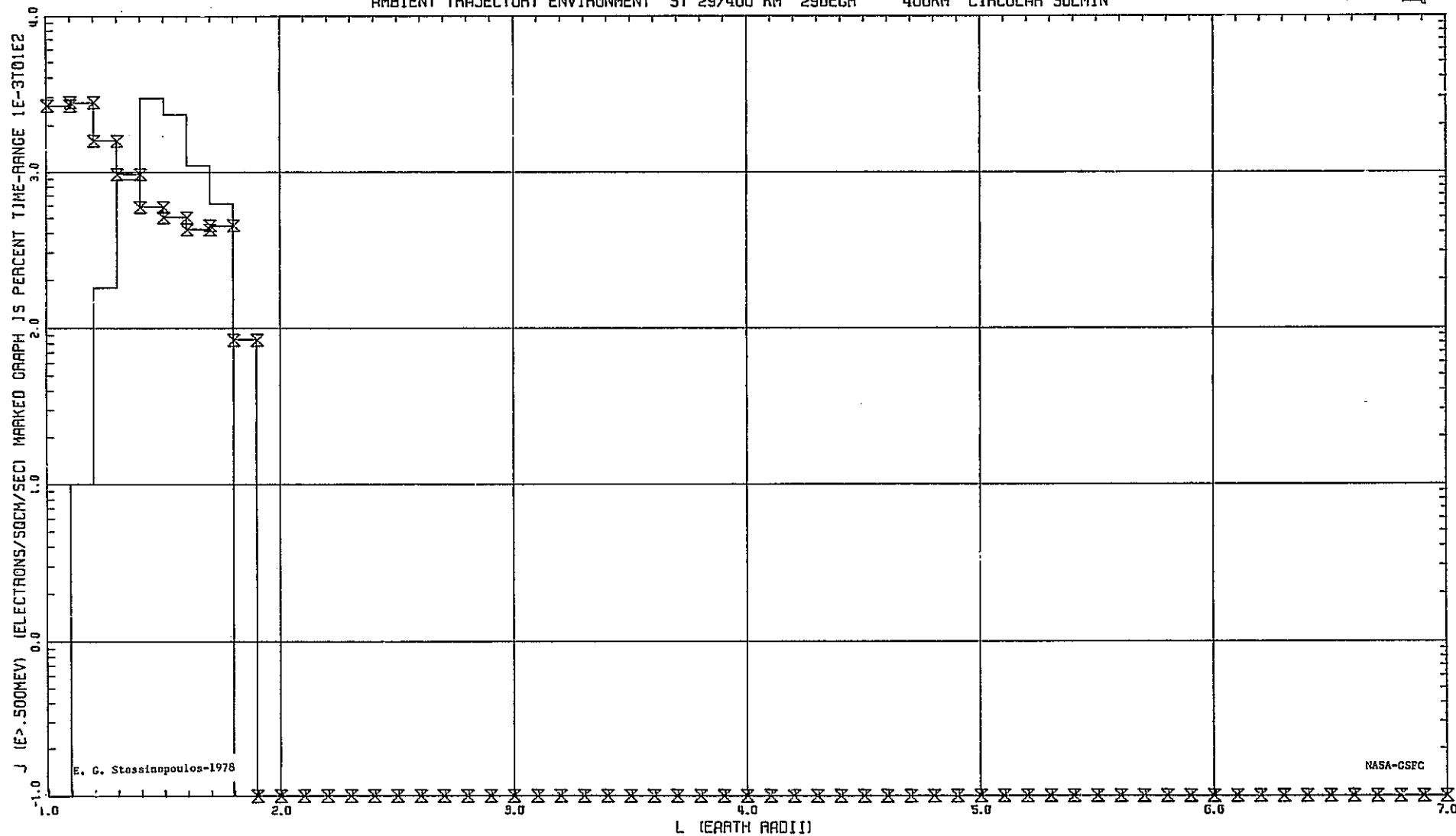
AMBIENT TRAJECTORY ENVIRONMENT ST 29/400 KM 290DEGR 400KM CIRCULAR

Figure 1



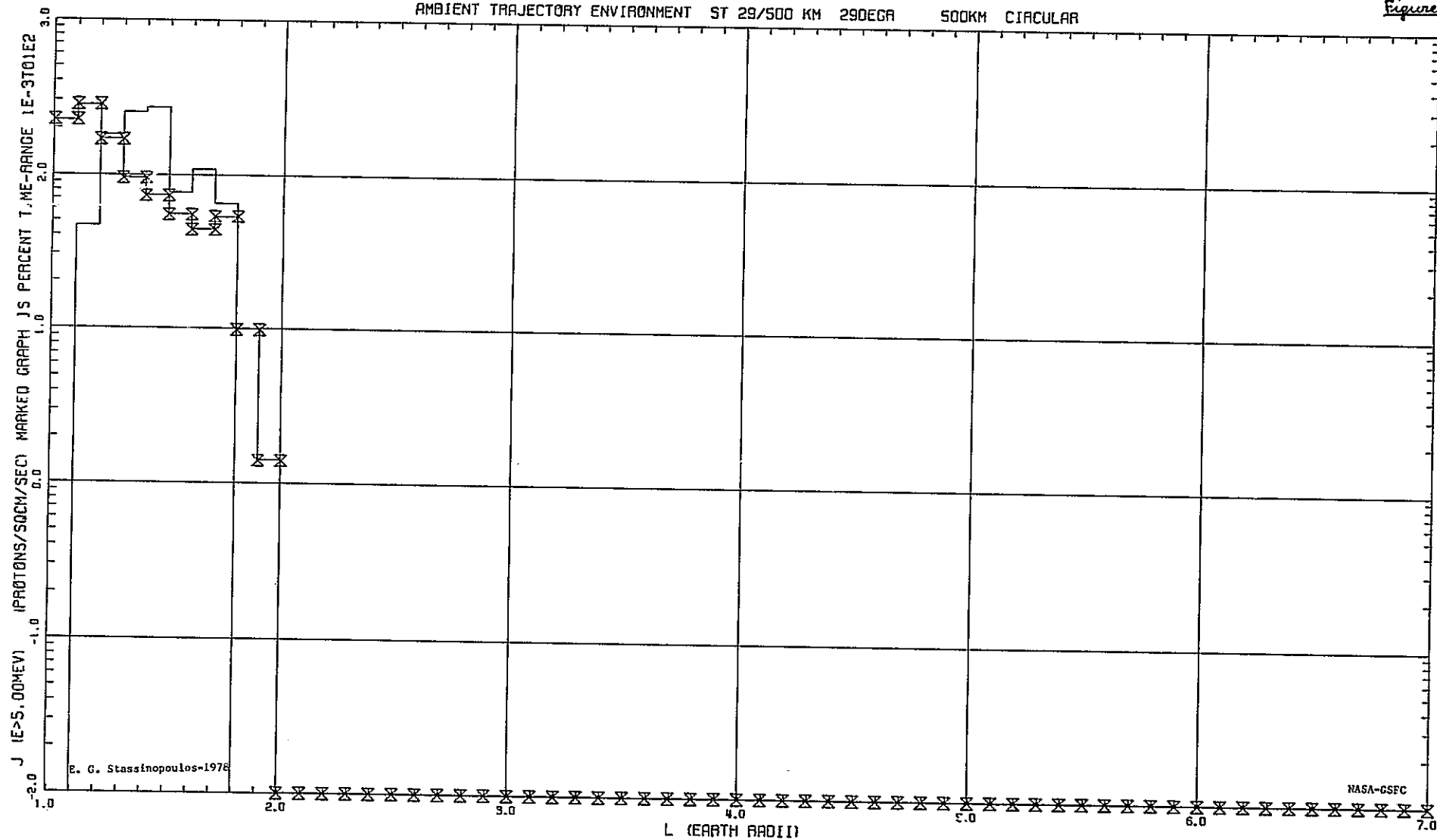
AMBIENT TRAJECTORY ENVIRONMENT ST 29/400 KM 29DEGR 400KM CIRCULAR SOLMIN

Figure 2



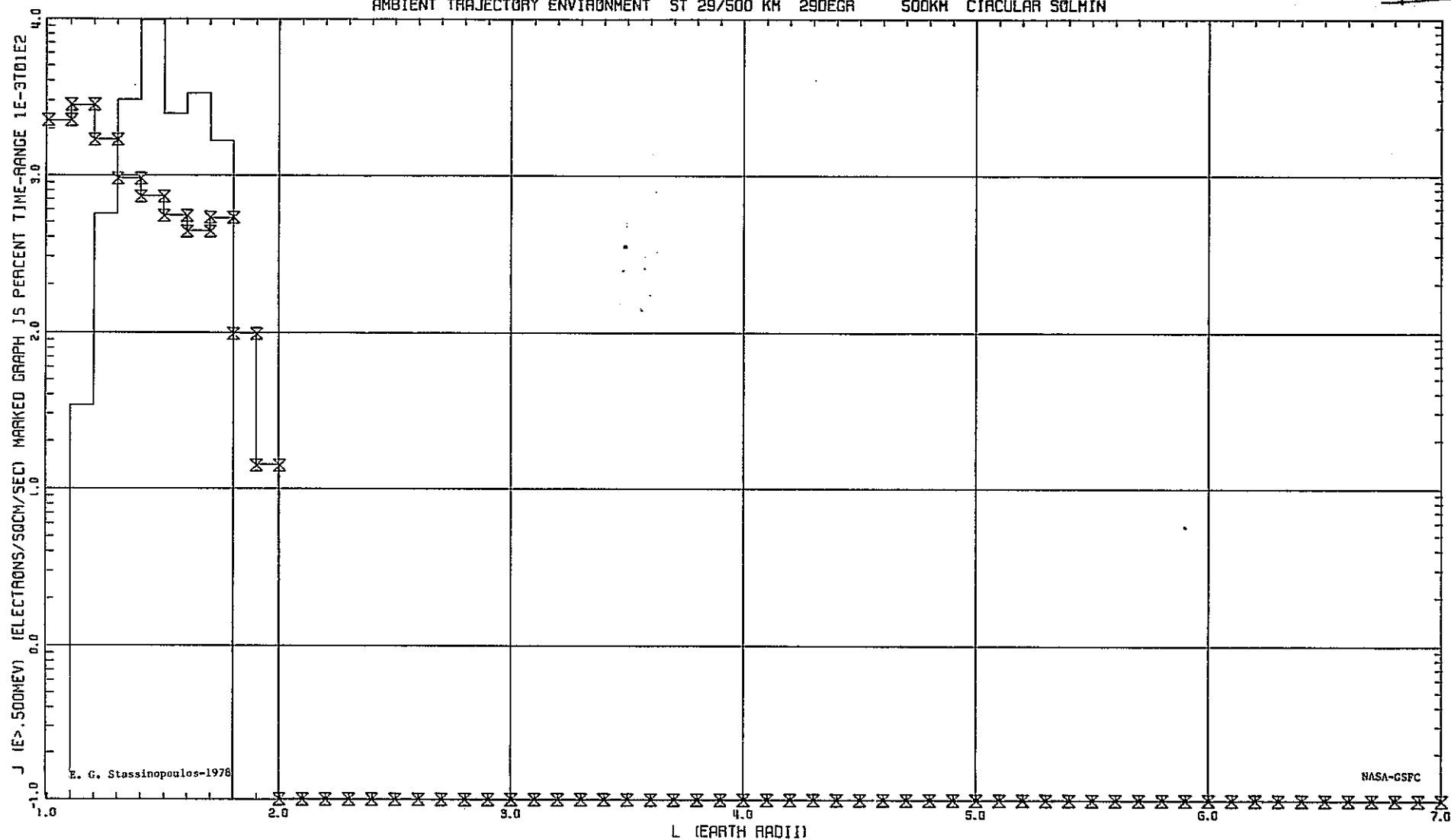
AMBIENT TRAJECTORY ENVIRONMENT ST 29/500 KM 290DEGR 500KM CIRCULAR

Figure 3



AMBIENT TRAJECTORY ENVIRONMENT ST 29/500 KM 29DEGR 500KM CIRCULAR SOLMIN

Figure 4



AMBIENT TRAJECTORY ENVIRONMENT ST 29/600 KM 29DEGR 600KM CIRCULAR

Figure 5

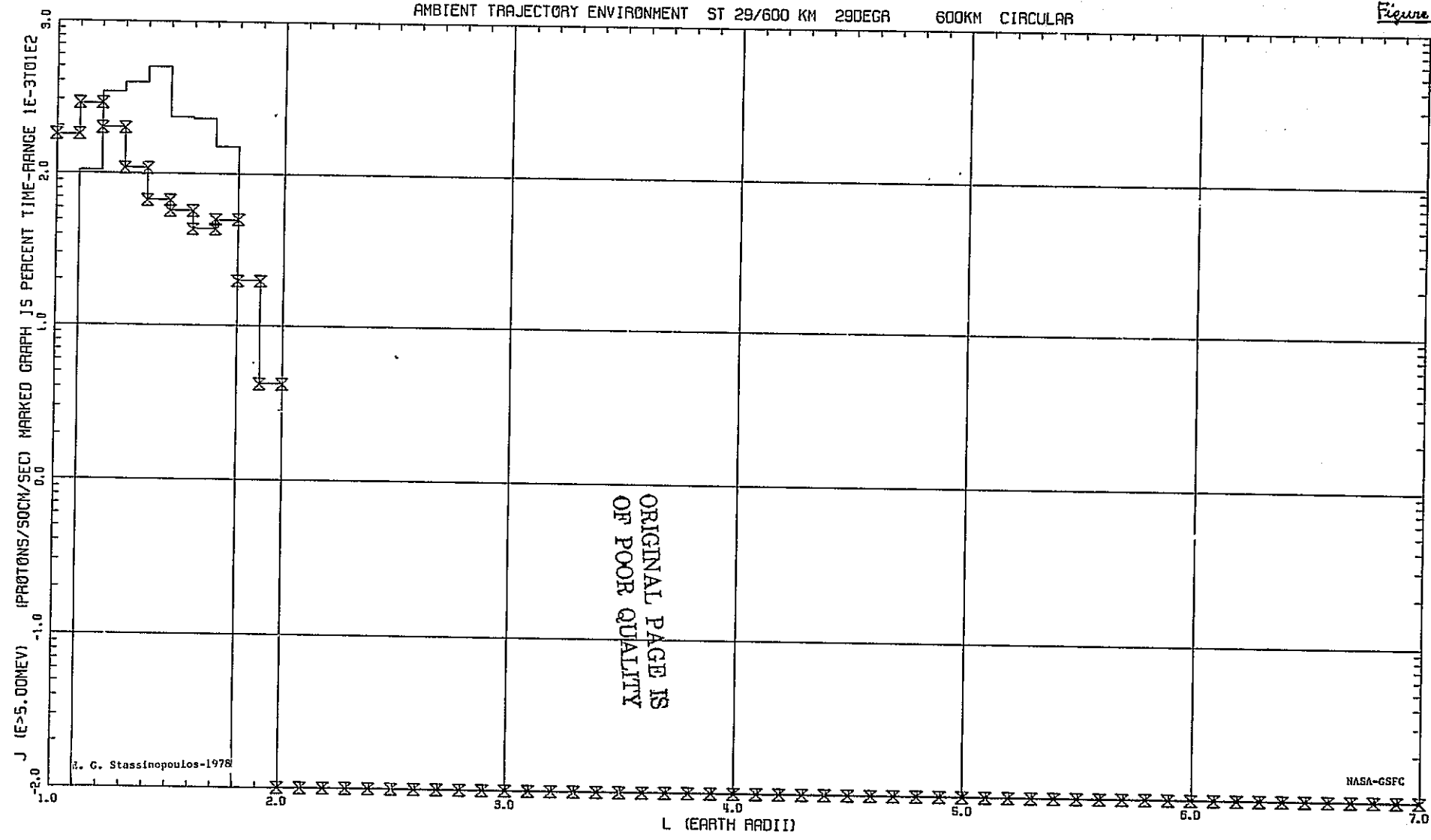
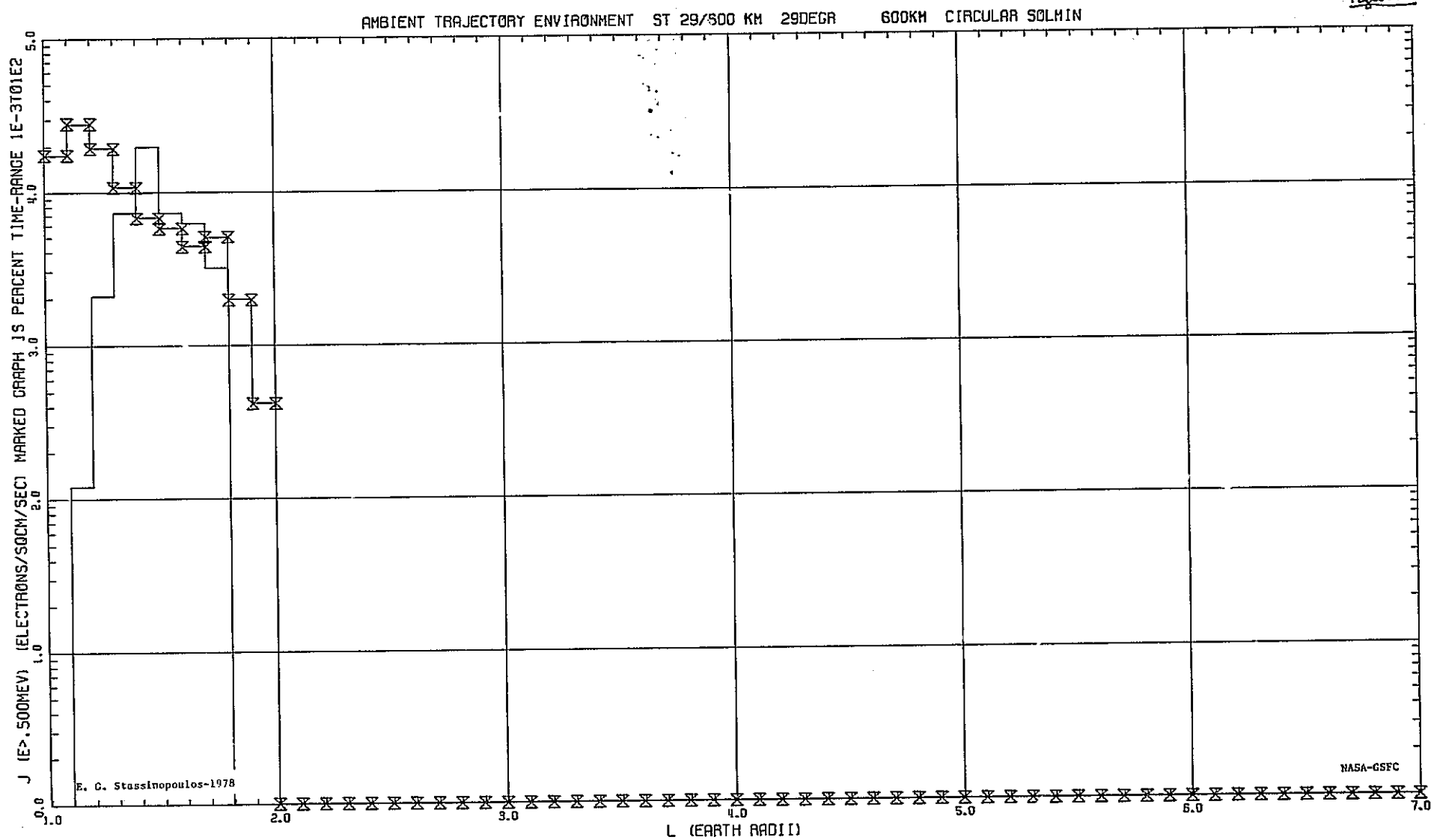
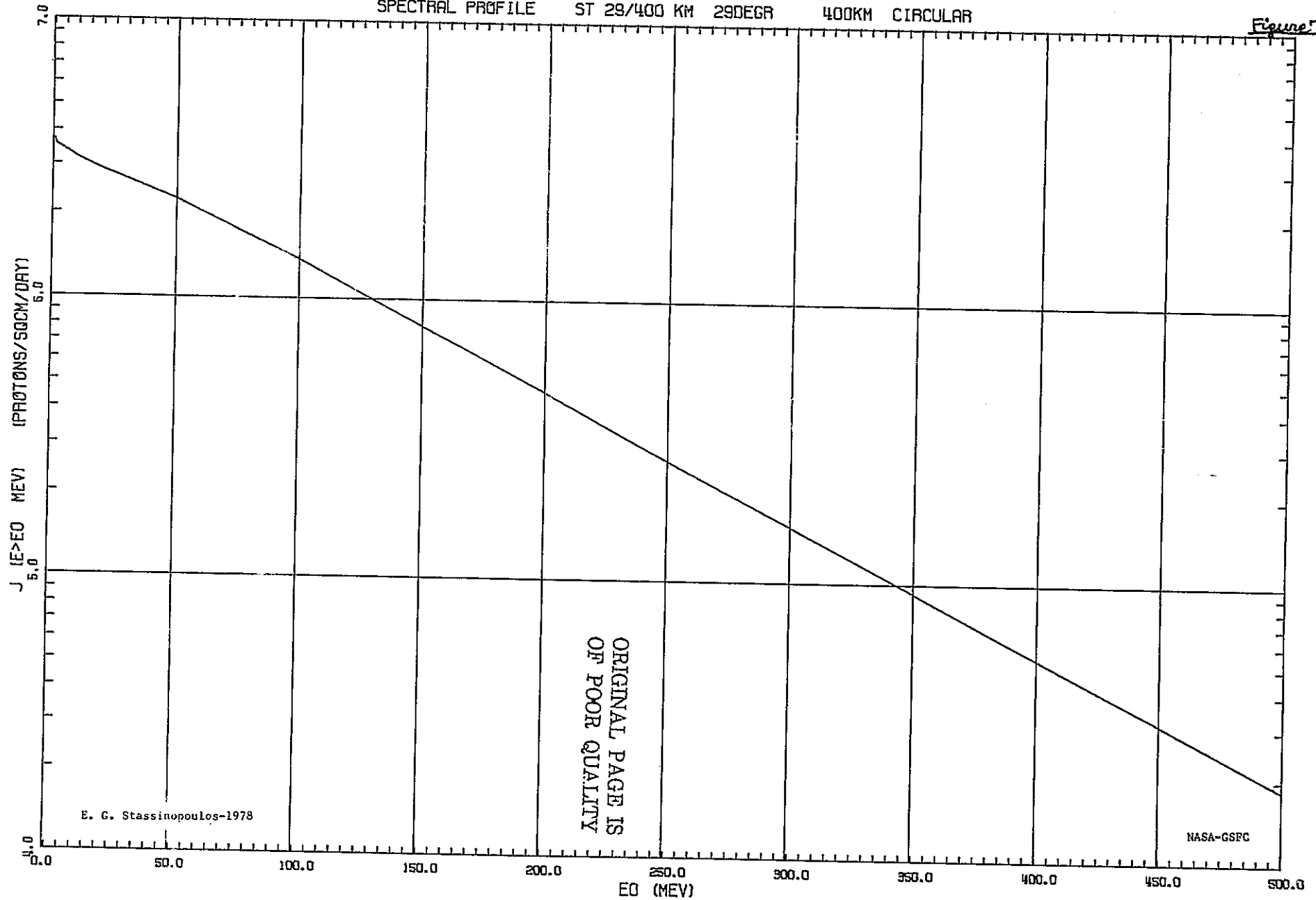


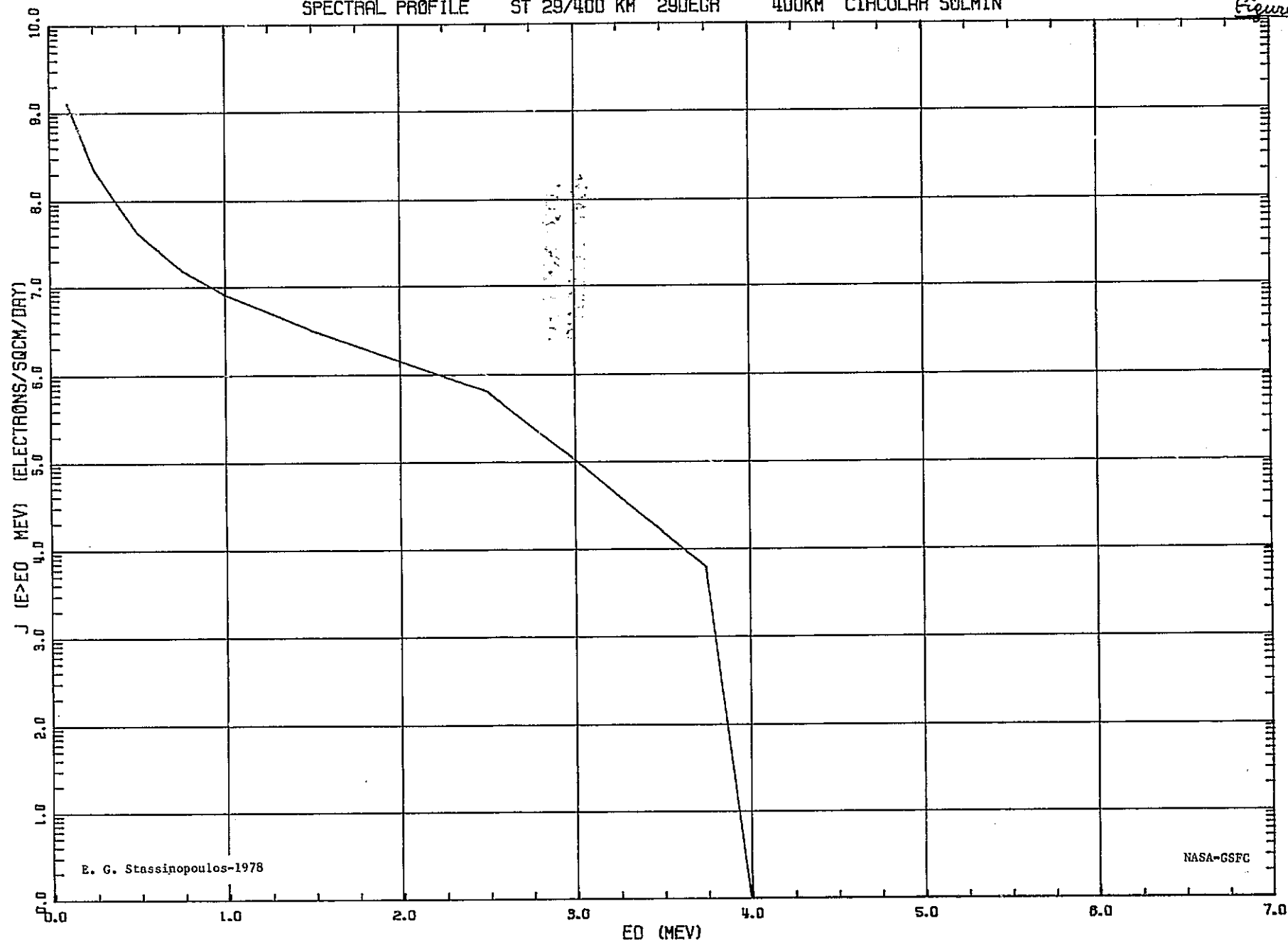
Figure 6





SPECTRAL PROFILE ST 29/400 KM 29DEGR 400KM CIRCULAR SOLMIN

Figure 8



E. G. Stassinopoulos-1978

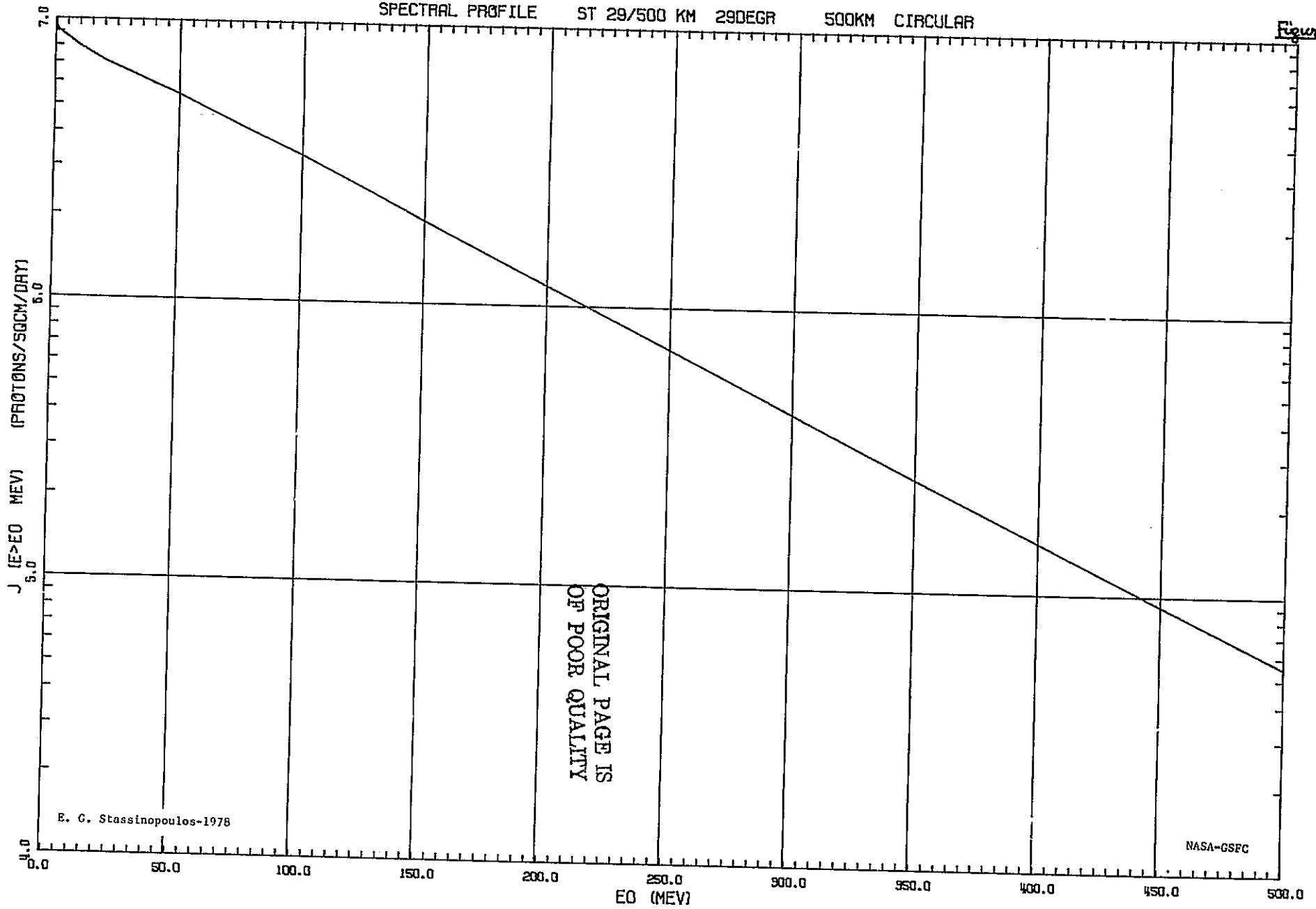
NASA-GSFC

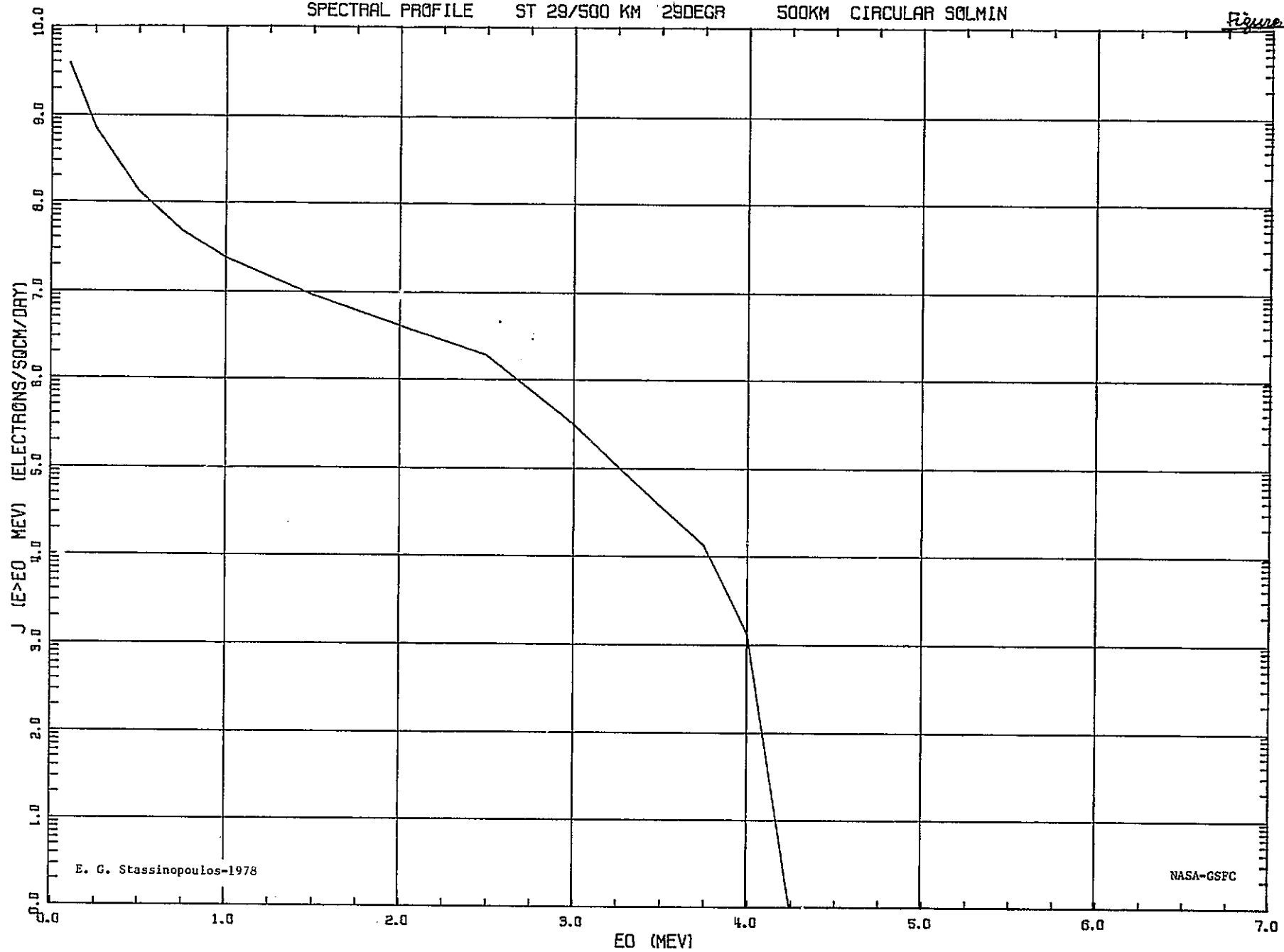
SPECTRAL PROFILE

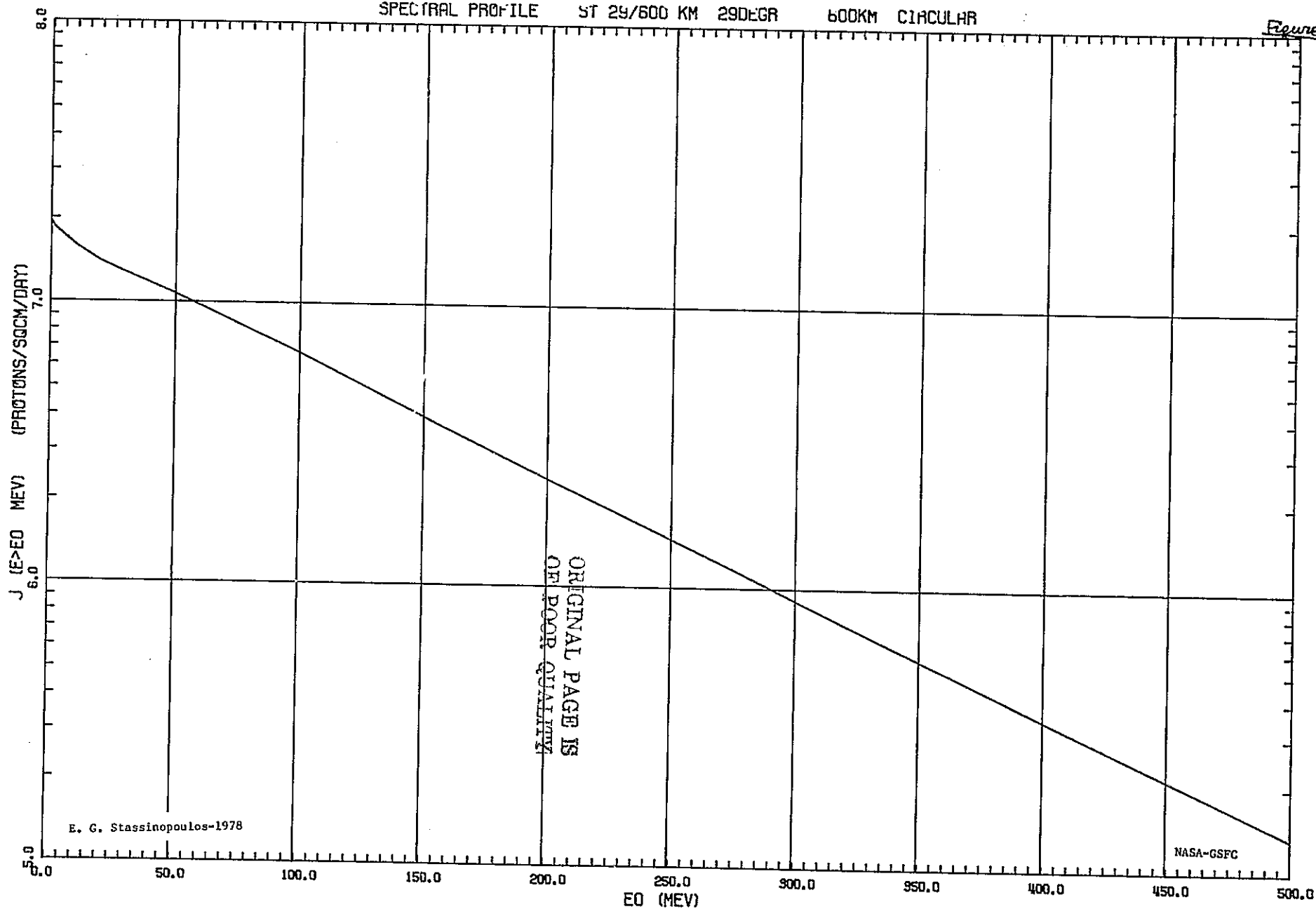
ST 29/500 KM 29DEGR

500KM CIRCULAR

Figure 9







SPECTRAL PROFILE

ST 29/600 KM 29DEGR

600KM CIRCULAR SOLMIN

Figure 12

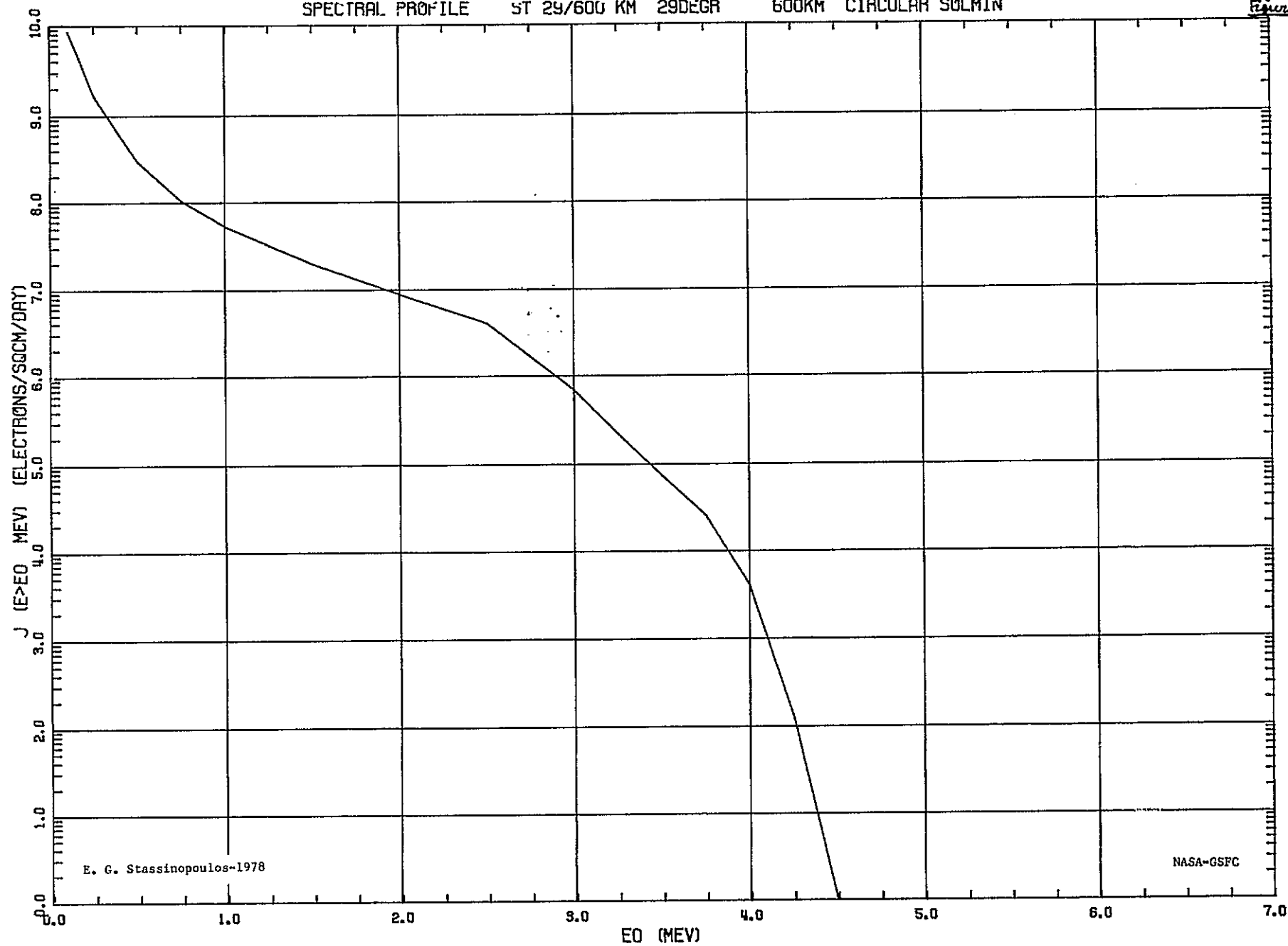
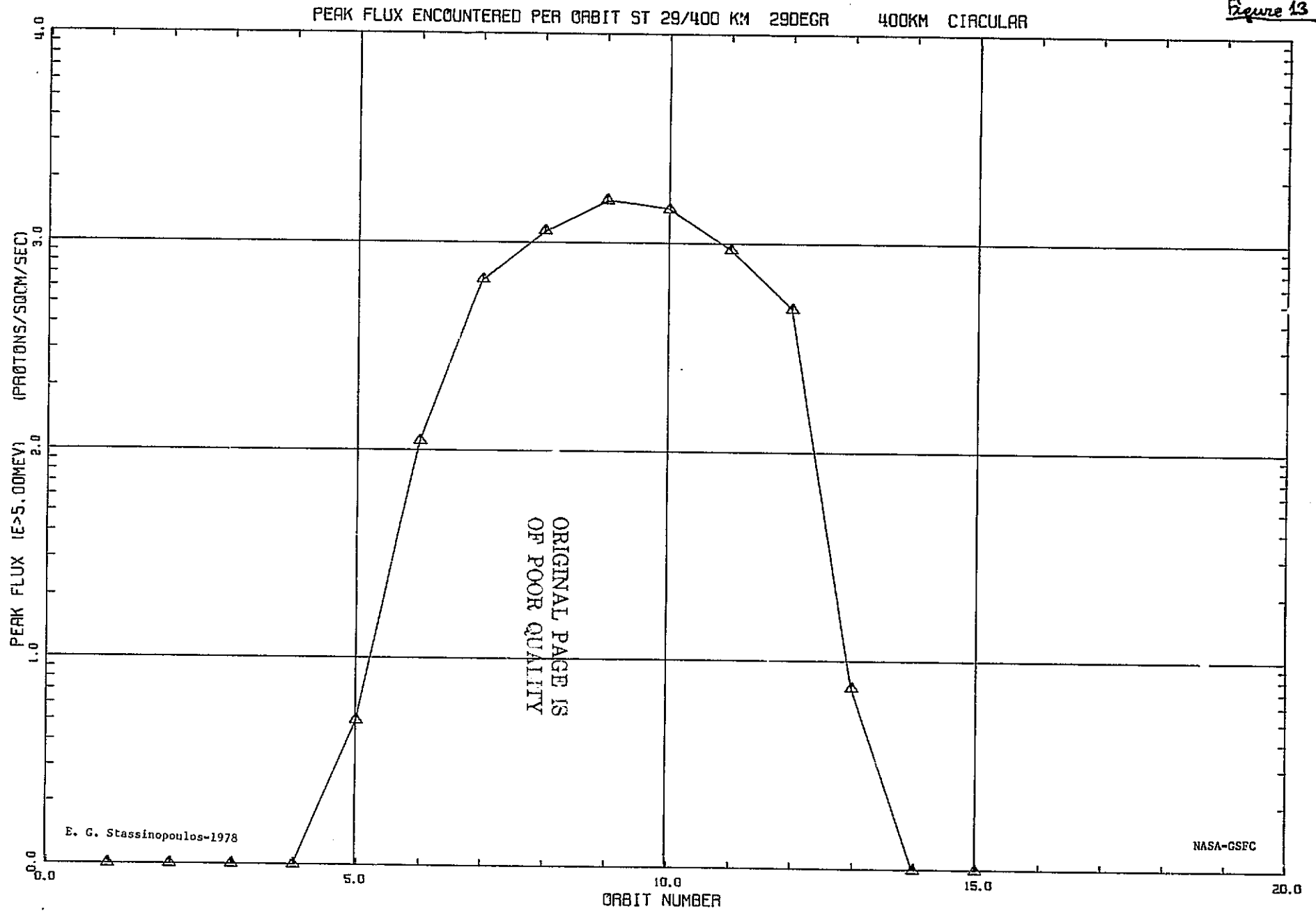


Figure 13



PEAK FLUX ENCOUNTERED PER ORBIT ST 29/400 KM 29DEGR

400KM CIRCULAR SOLMIN

Figure 14

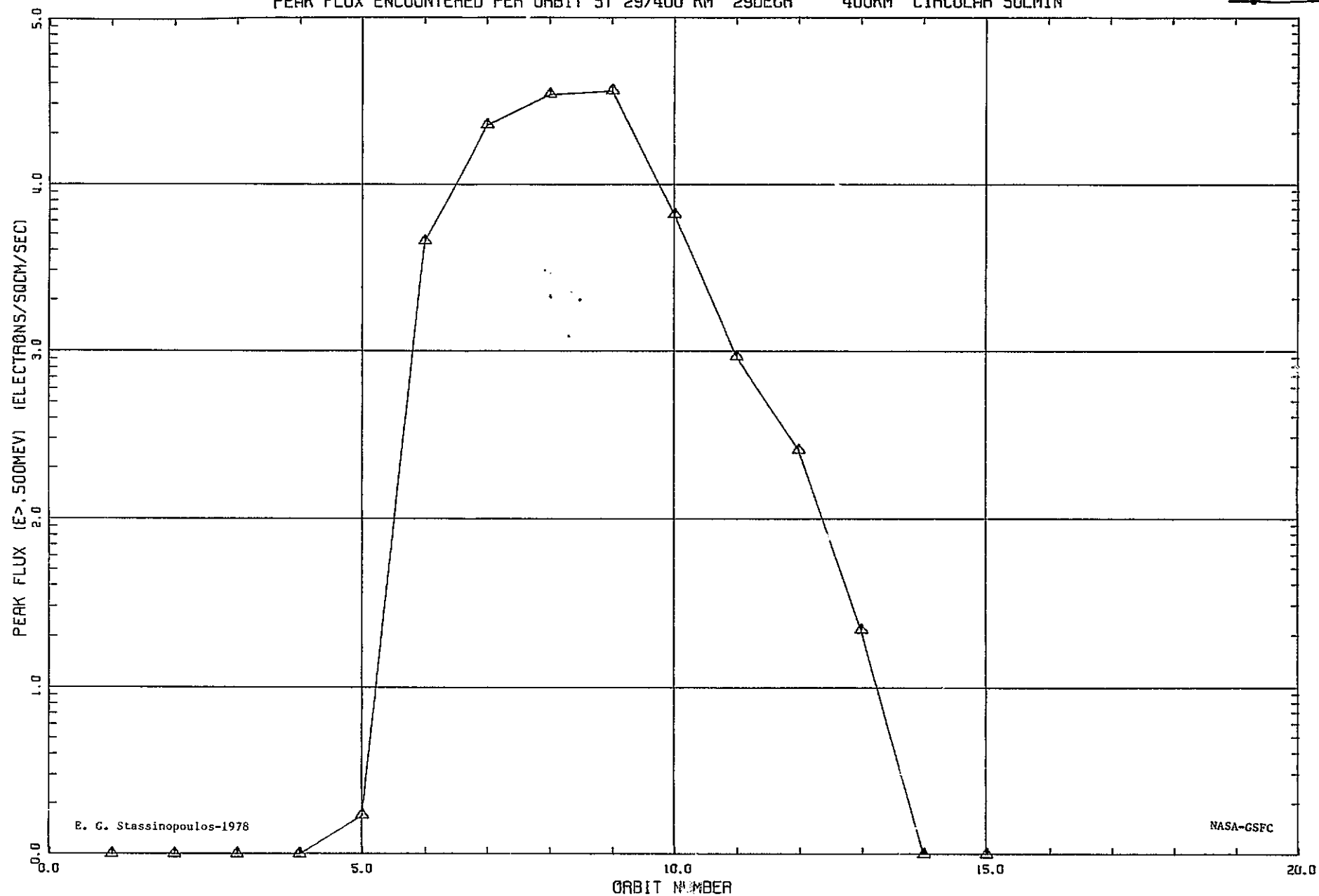


Figure 15

PEAK FLUX ENCOUNTERED PER ORBIT ST 29/500 KM 29DEGR 500KM CIRCULAR

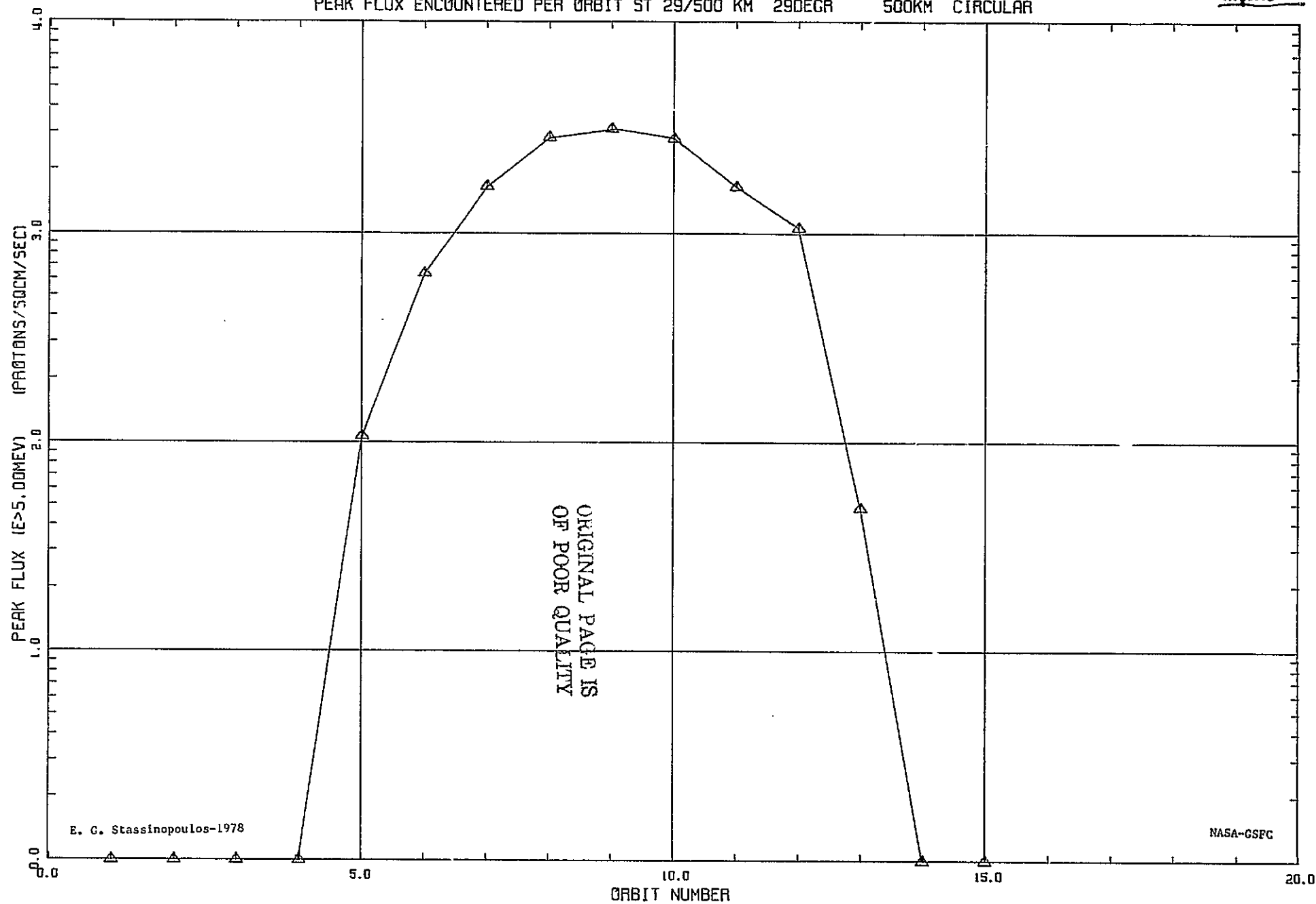


Figure 16

PEAK FLUX ENCOUNTERED PER ORBIT ST 29/500 KM 29DEGR 500KM CIRCULAR SOLMIN

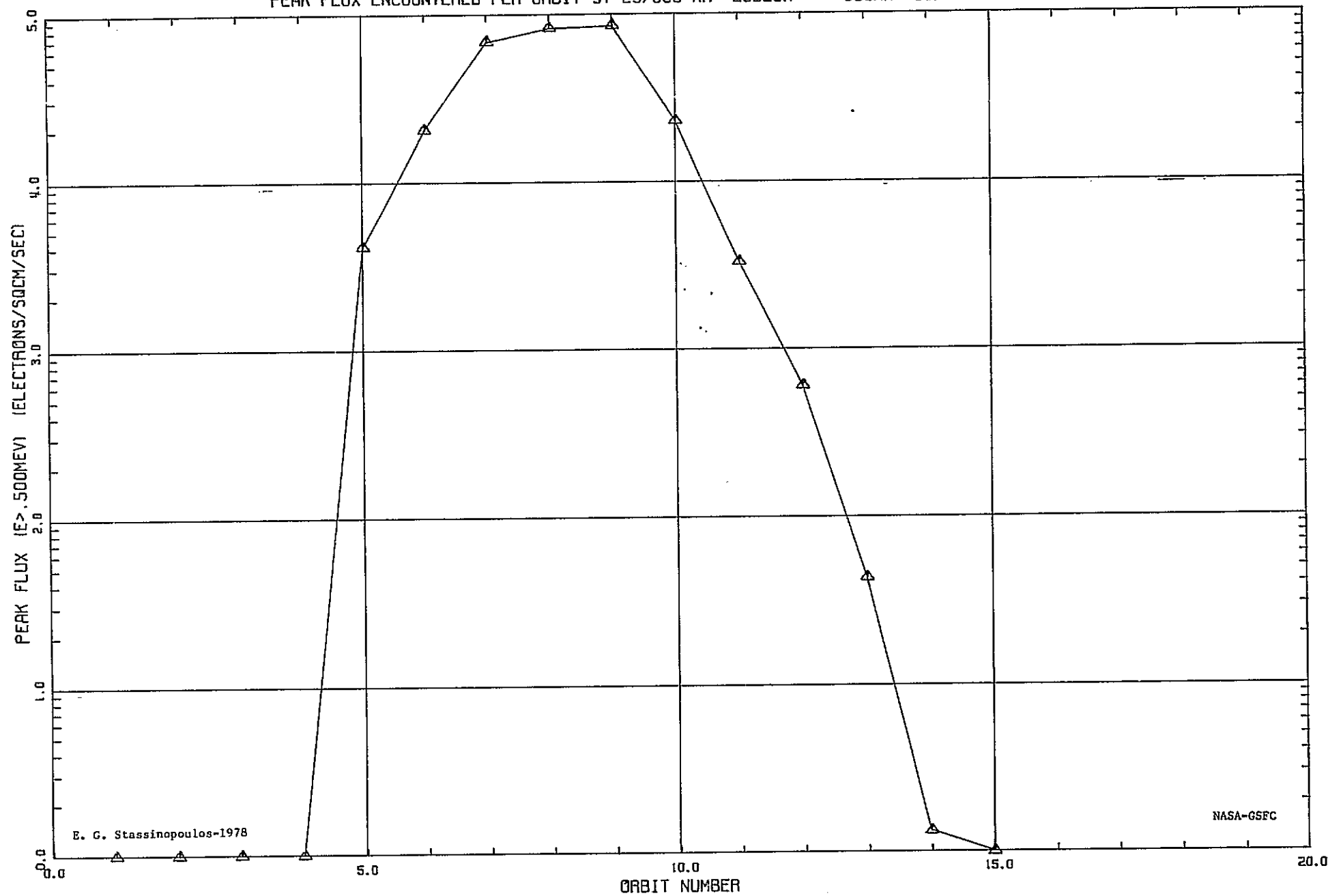
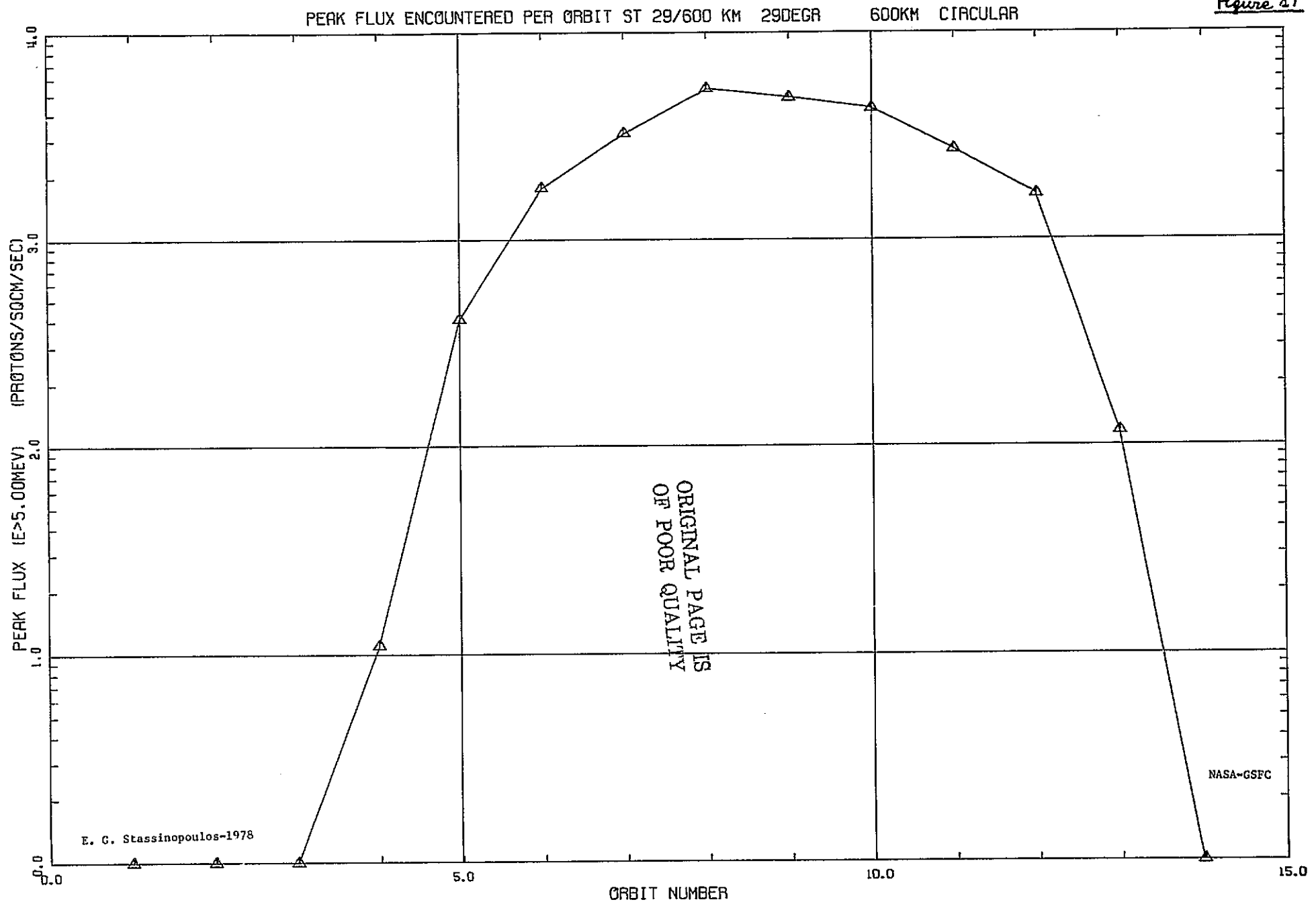
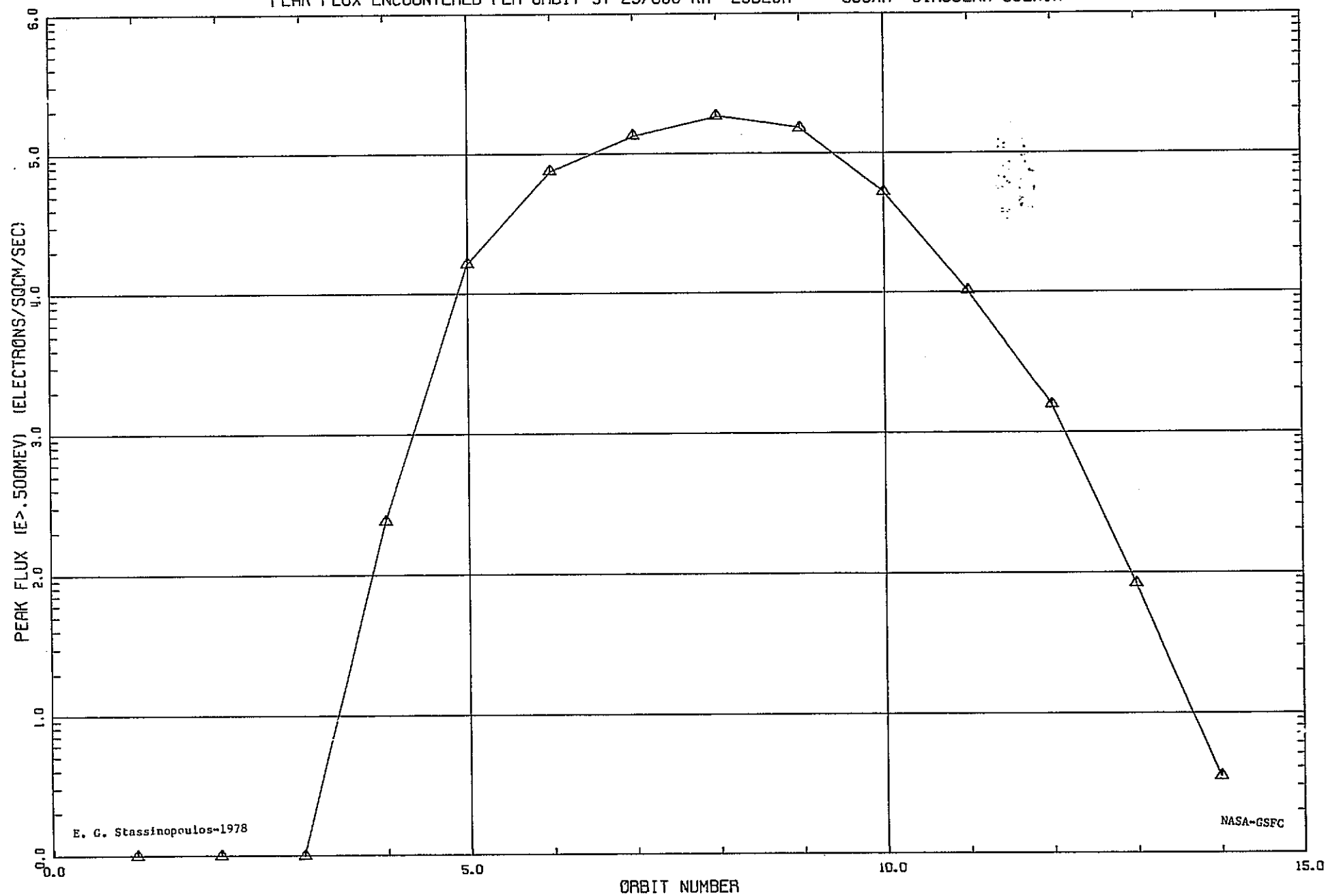


Figure 47



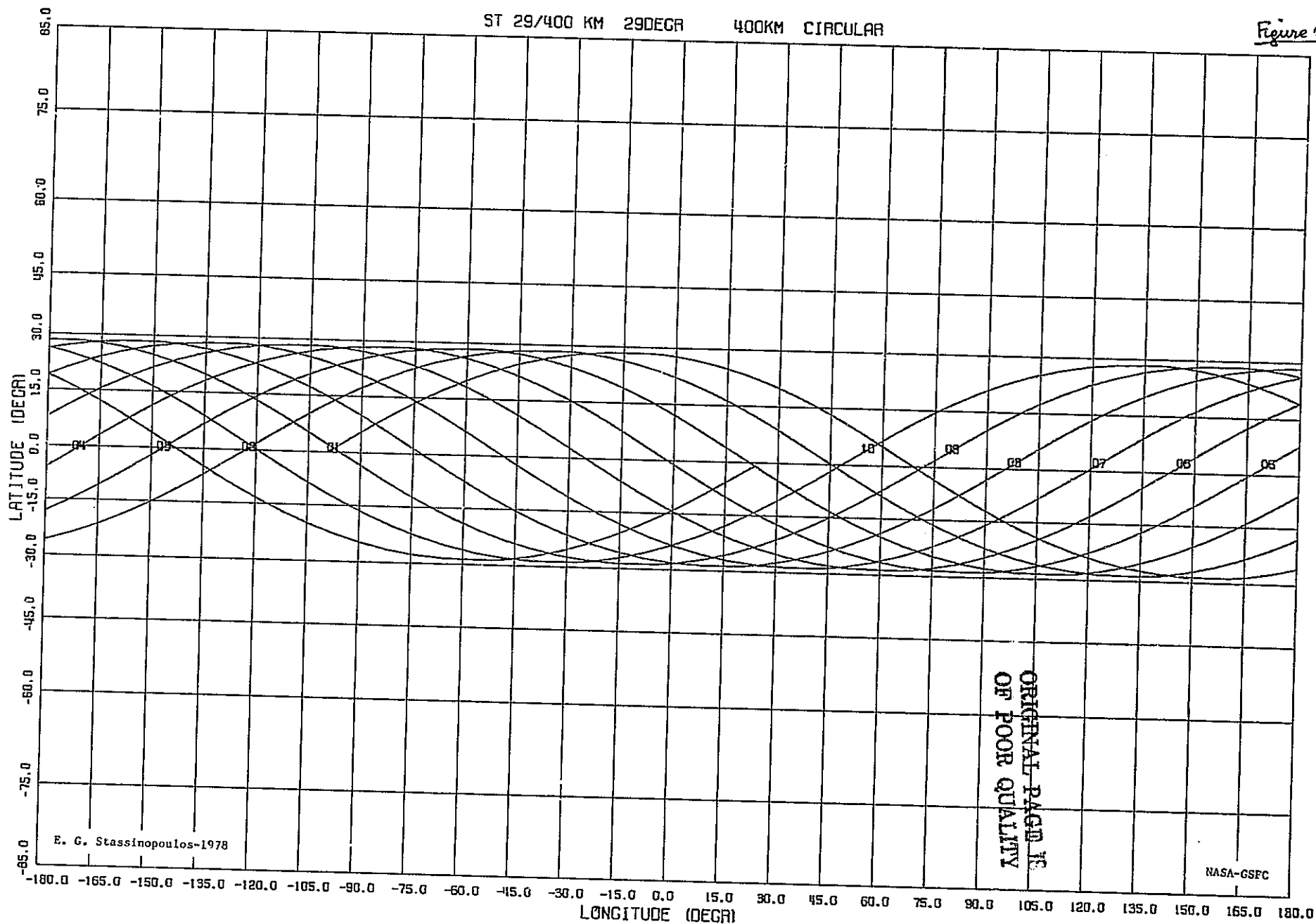
PEAK FLUX ENCOUNTERED PER ORBIT ST 29/600 KM 29DEGR 600KM CIRCULAR SOLMIN

Figure 18



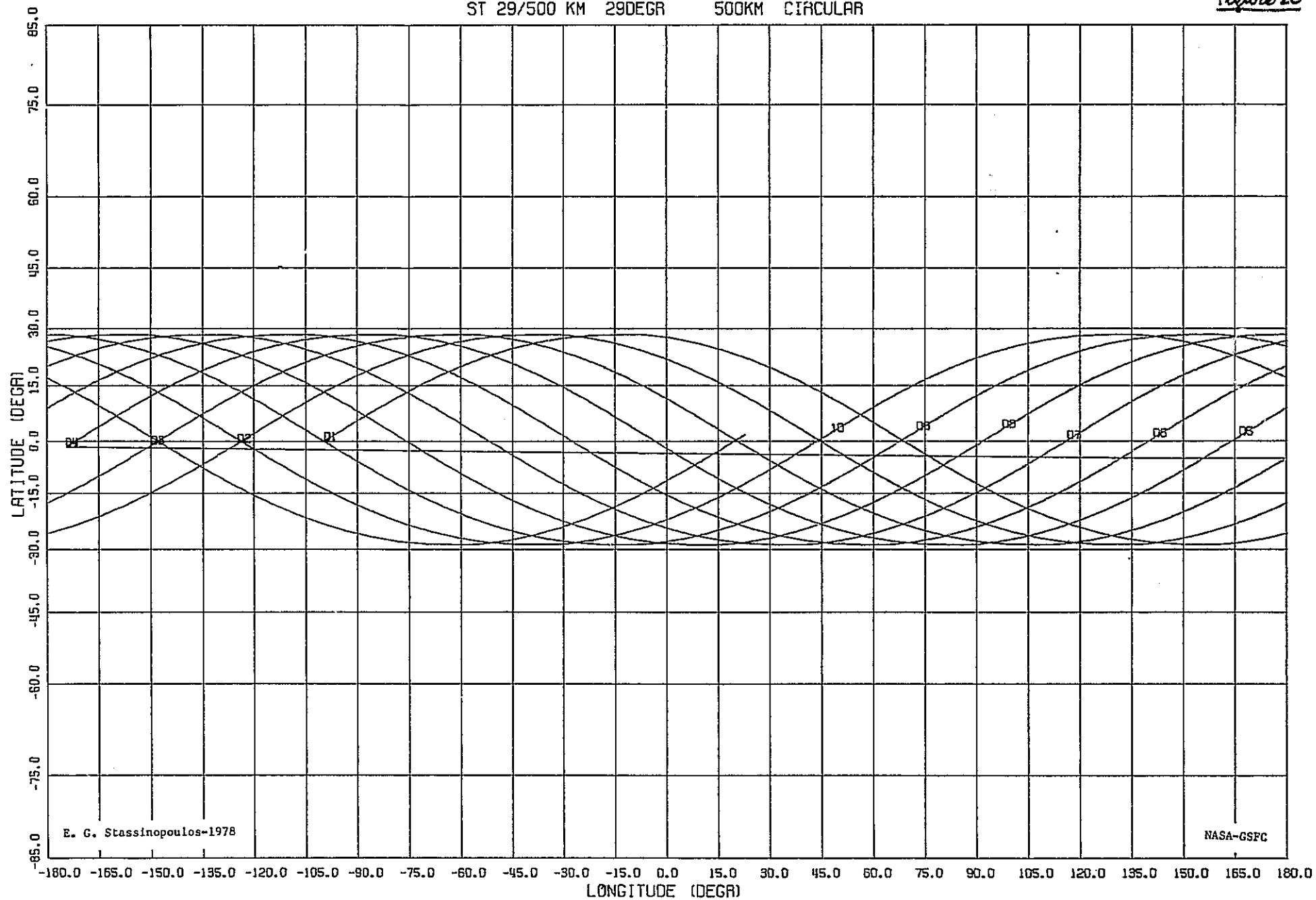
ST 29/400 KM 29DEGR 400KM CIRCULAR

Figure 19



ST 29/500 KM 29DEGR 500KM CIRCULAR

Figure 20



ST 29/600 KM 29DEGR 600KM CIRCULAR

Figure 21

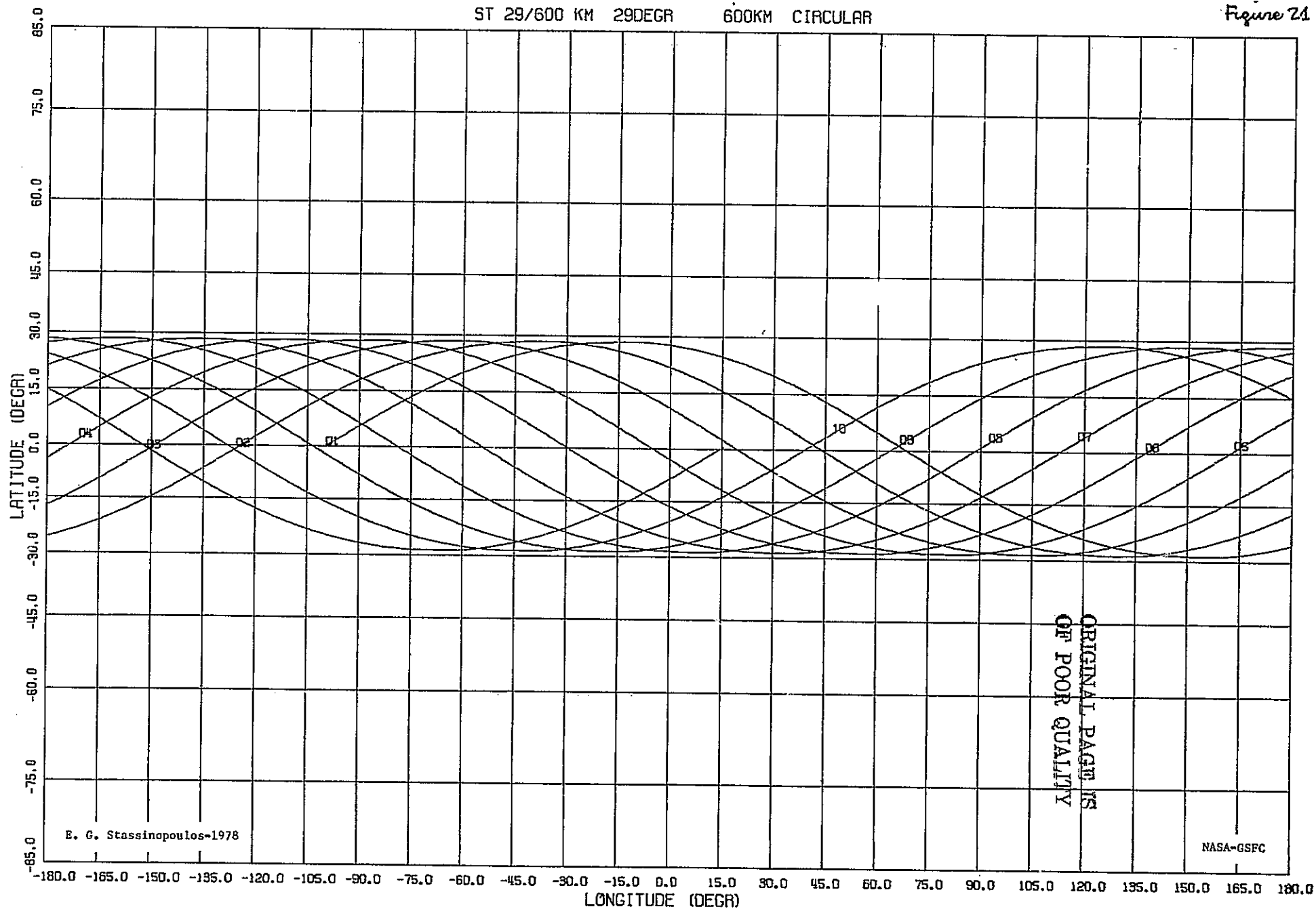


Figure 22

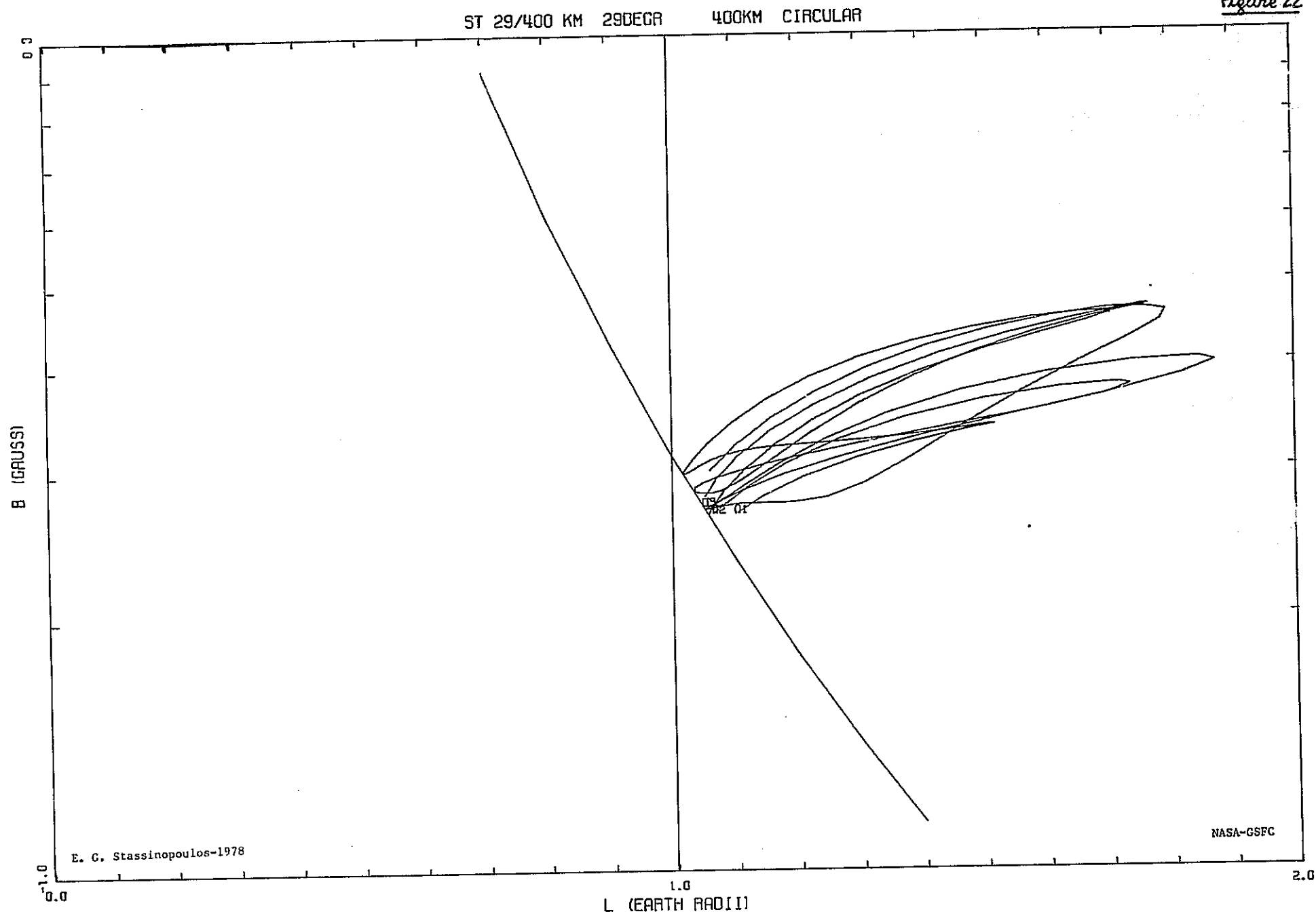
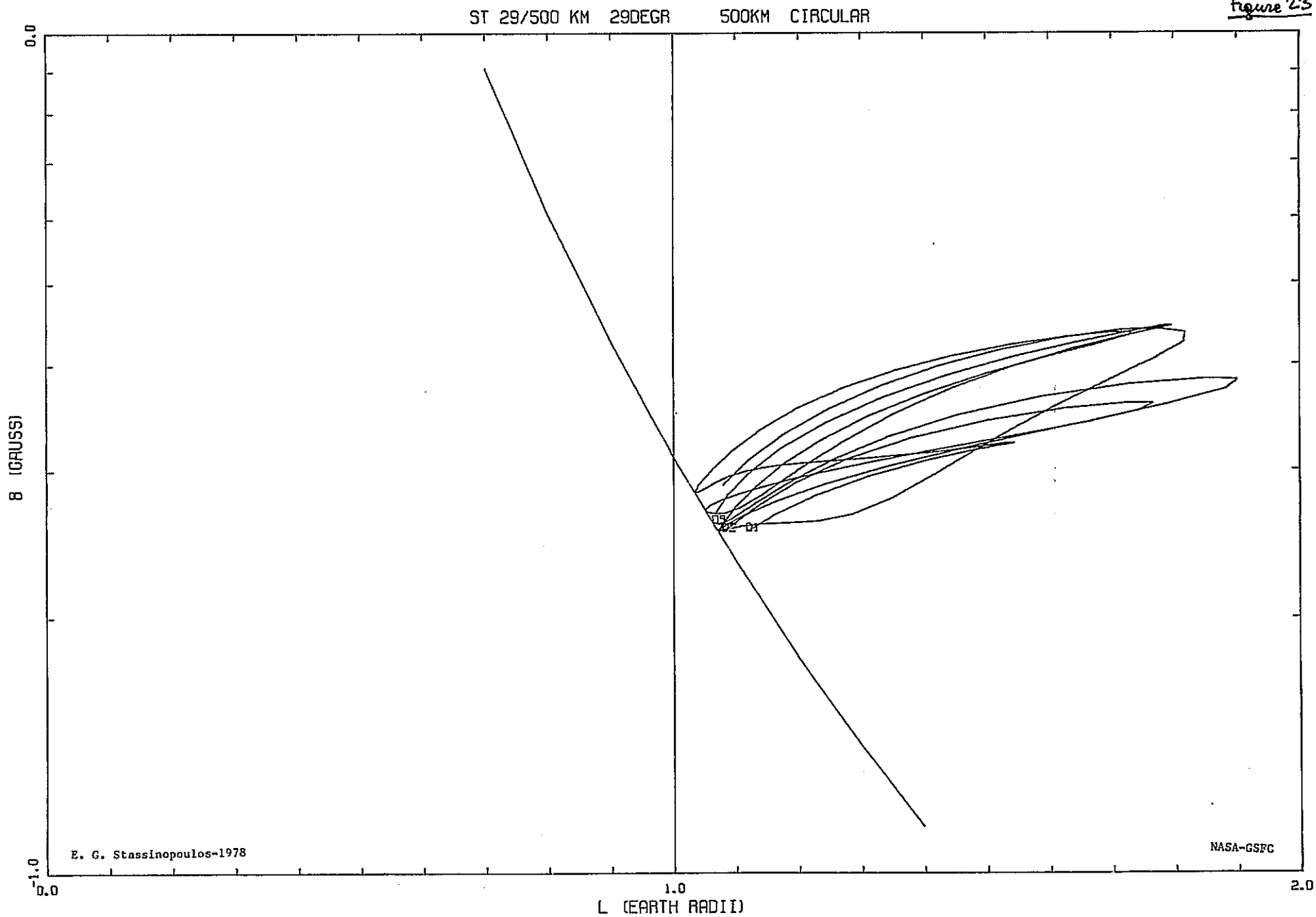
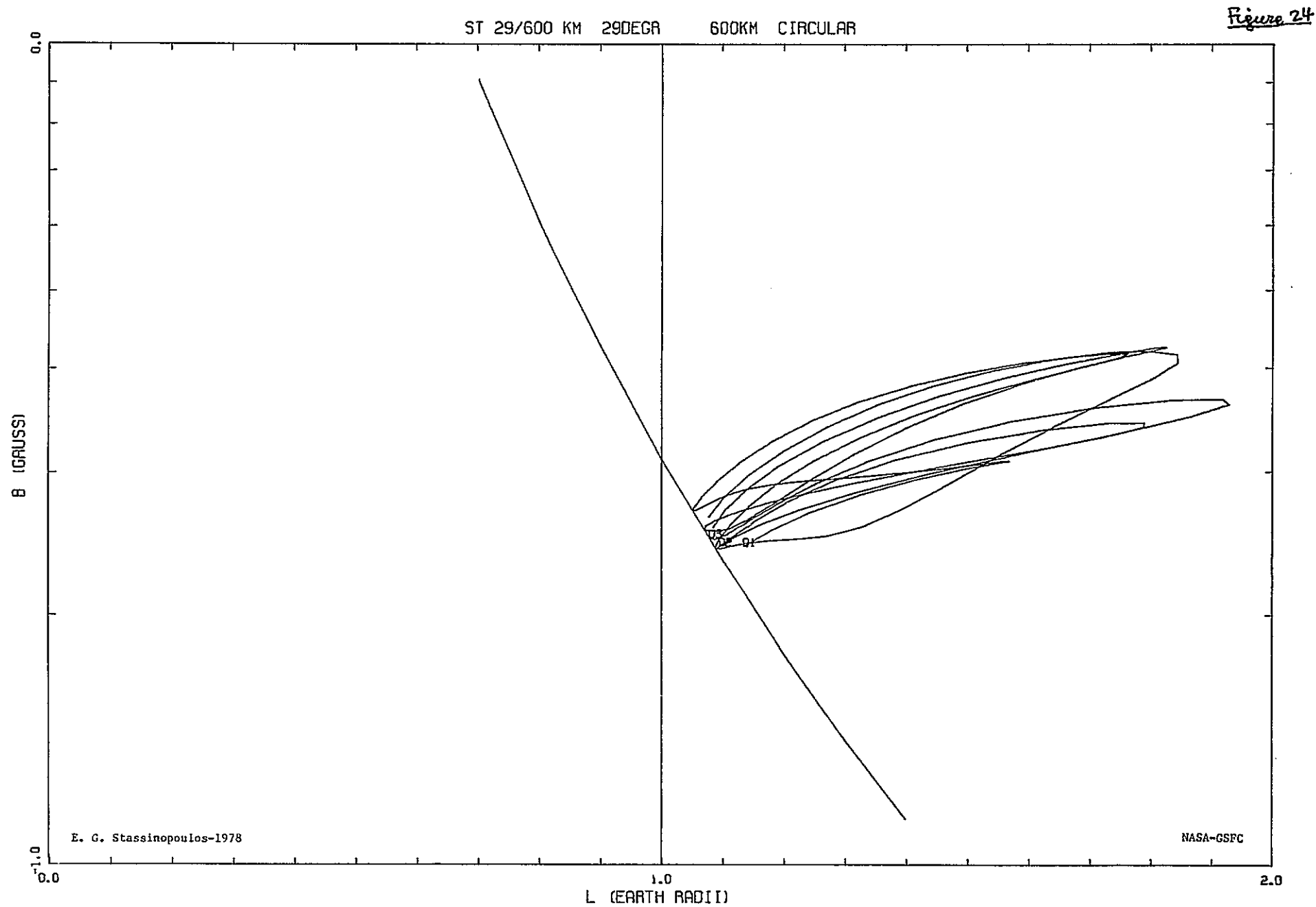
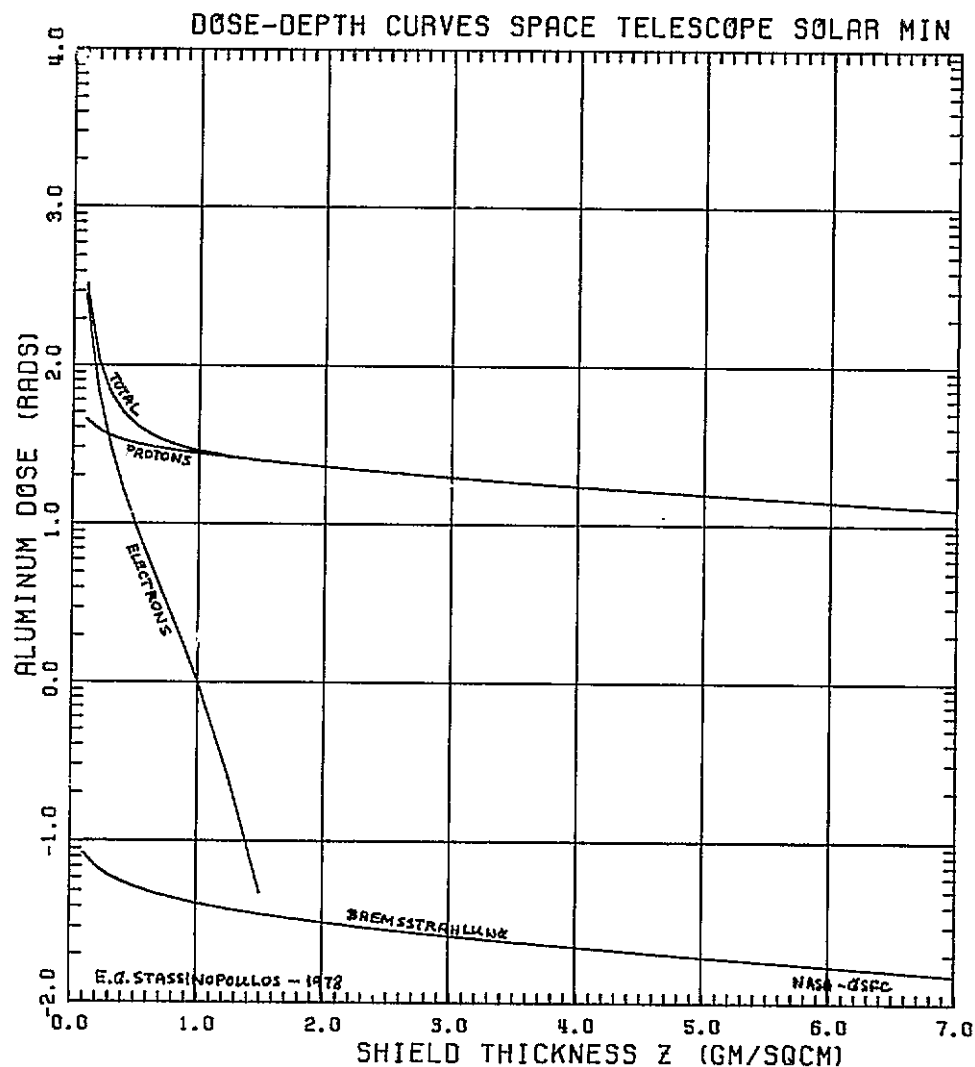


Figure 23







ORBIT: CIRCULAR
H=400 KM
I=28.8 DEG

EPOCH: 1984.0

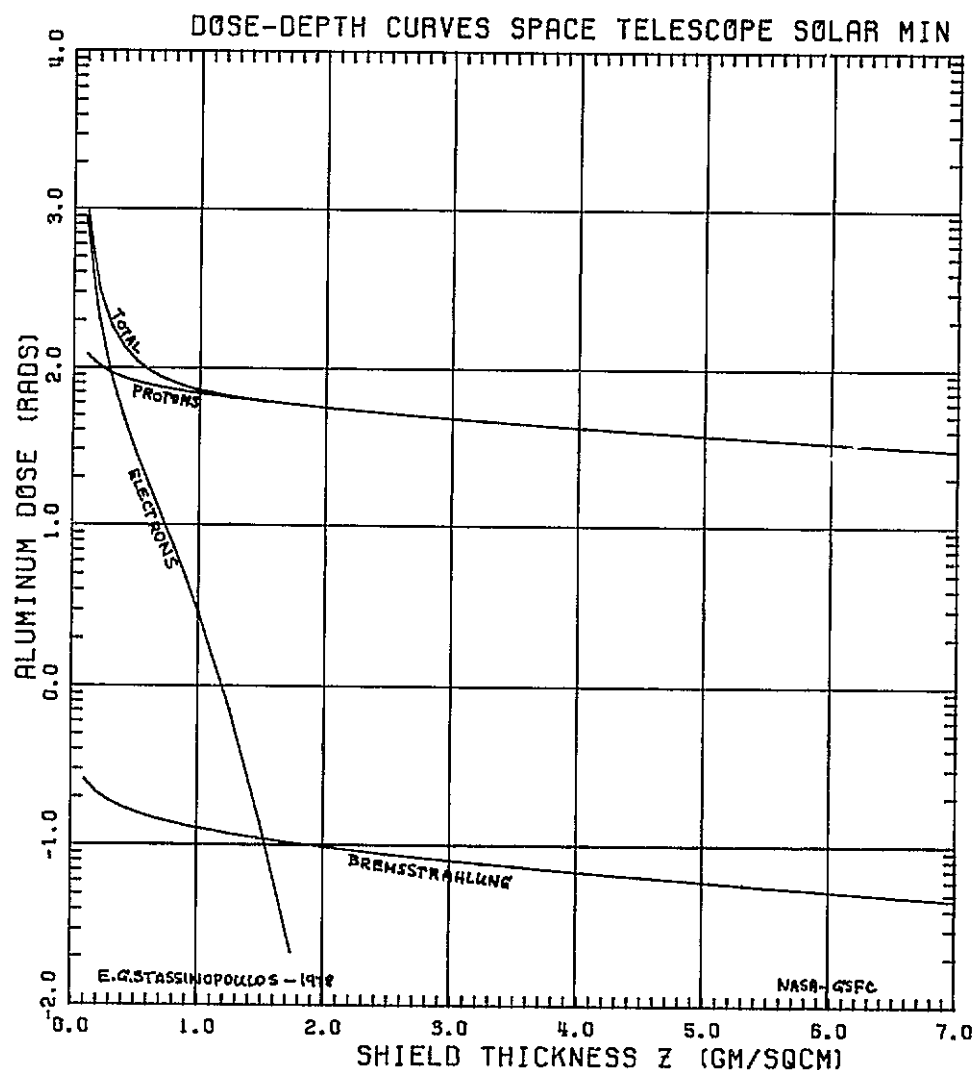
MODELS:
FIELD: BARR/75
TRAPPED PROTONS: AP8-MIC
INNER ZONE ELECTRONS: AE5-MIN

MISSION DURATION: 1 YEAR

GEOMAGNETIC SHIELDING: 100%

Figure 25

Figure 26



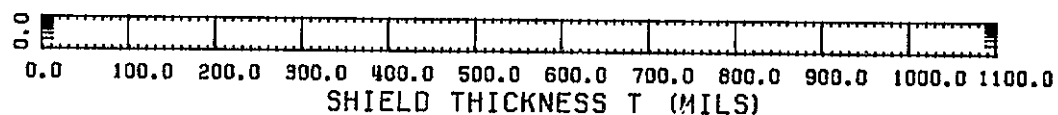
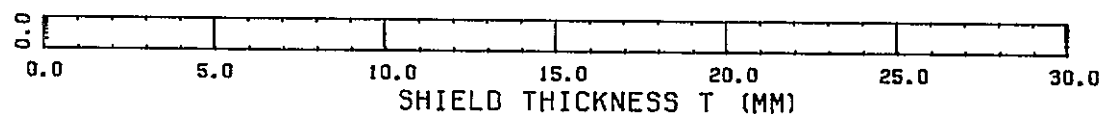
ORBIT: CIRCULAR
H=500 KM
I=28.8 DEG

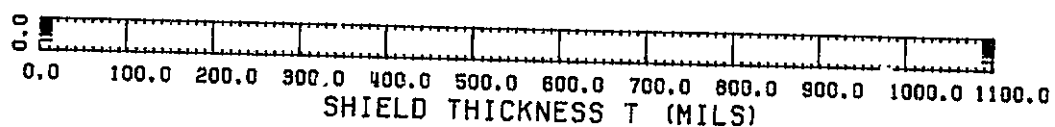
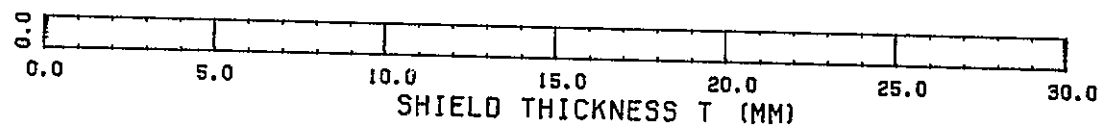
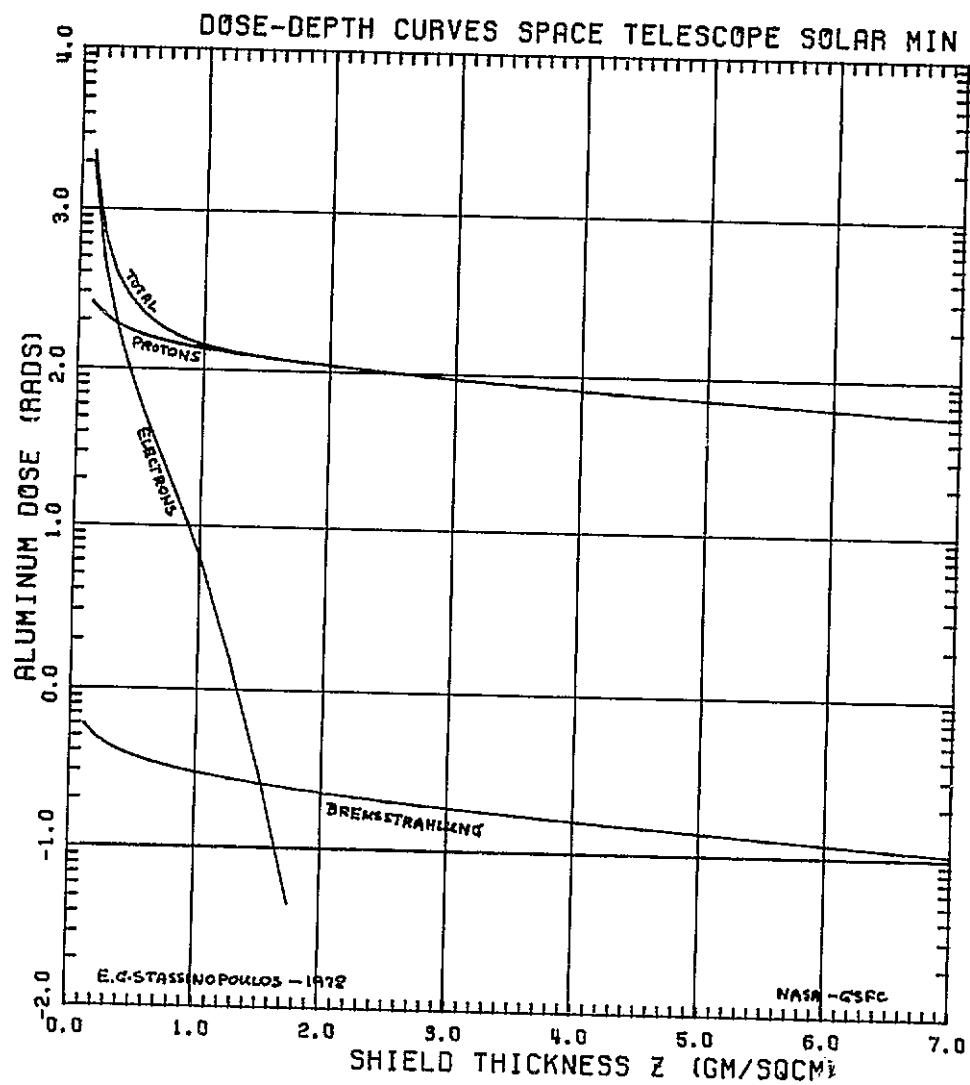
EPOCH: 1984.0

MODELS:
FIELD: BARR/75
TRAPPED PROTONS: AP8-MIC
INNER ZONE ELECTRONS: AE5-MIN

MISSION DURATION: 1 YEAR

GEOMAGNETIC SHIELDING: 100%





ORBIT: CIRCULAR
H=600 KM
I=28.8 DEG

EPOCH: 1984.0

MODELS:
FIELD: BARR/75
TRAPPED PROTONS: AP8-MIC
INNER ZONE EL: AONS: AE5-MIN

MISSION DURATION: 1 YEAR

GEOMAGNETIC SHIELDING: 100%

ORIGINAL PAGE IS
OF POOR QUALITY

Figure 27

ALTITUDE: 400 KM

ELECTRONS: $E > .10$ MEV

INNER ZONE MODEL: AE5 (SOLAR MIN)

A

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 400.0		ENERGY= 3.100		ELECTRONS											
	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	2	4	7	5	9	16	11	20	32
-10.0	1	1	1	1	1	2	4	7	11	18	18	29	43	64	83
-11.0	1	1	1	1	1	3	5	8	14	23	28	43	61	87	114
-12.0	1	1	1	1	2	4	7	11	18	28	36	55	82	114	146
-13.0	1	1	1	2	3	5	8	13	23	35	45	68	102	139	188
-14.0	1	1	1	2	4	6	9	16	26	43	57	88	124	177	236
-15.0	1	1	2	3	5	7	12	19	31	49	66	103	142	199	263
-16.0	1	1	2	4	6	9	14	23	37	58	76	119	176	244	320
-17.0	1	2	3	5	8	12	19	31	46	74	117	173	255	375	516
-18.0	1	2	3	6	10	16	27	40	64	97	155	231	340	499	728
-19.0	1	1	4	7	13	21	34	53	86	140	211	316	466	681	985
-20.0	1	1	4	8	15	26	44	72	115	187	293	469	694	1013	1464
-21.0	1	1	3	9	18	31	56	88	153	240	393	621	945	1477	2208
-22.0	1	1	2	8	19	37	64	116	193	311	512	812	1324	1941	2913
-23.0	1	1	1	6	18	40	76	138	232	392	667	1074	1649	2578	3817
-24.0	1	1	1	3	13	39	79	157	280	491	861	1413	2193	3431	5398
-25.0	1	1	1	1	7	30	75	172	338	591	1008	1690	2849	4480	7046
-26.0	1	1	1	1	2	19	64	162	331	676	1220	2146	3445	5449	8478
-27.0	1	1	1	1	1	7	36	123	300	636	1237	2297	4061	6504	9296
-28.0	1	1	1	1	1	1	14	74	227	567	1140	2259	4031	6193	9565
-29.0	1	1	1	1	1	1	4	35	158	477	1135	2331	4004	6777	10804
-30.0	1	1	1	1	1	1	3	33	169	479	1208	2370	4524	7846	12727
-31.0	1	1	1	1	1	1	1	26	146	526	1271	2839	5560	9923	16423
-32.0	1	1	1	1	1	1	1	14	127	502	1358	3273	6701	12025	20531

ALTITUDE= 400.0		ENERGY= 0.100		ELECTRONS											
	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-18.0	-16.0	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	4	3	3	3	2	1	1	1	1	1	1	1	1	1	1
-2.0	6	6	5	4	3	2	1	1	1	1	1	1	1	1	1
-3.0	9	8	8	7	5	3	1	1	1	1	1	1	1	1	1
-4.0	15	13	12	10	8	5	2	1	1	1	1	1	1	1	1
-5.0	22	21	19	15	11	7	3	1	1	1	1	1	1	1	1
-6.0	36	34	30	23	16	9	3	1	1	1	1	1	1	1	1
-7.0	58	51	42	33	22	11	3	1	1	1	1	1	1	1	1
-8.0	88	79	64	48	28	13	3	1	1	1	1	1	1	1	1
-9.0	131	115	95	65	35	14	3	1	1	1	1	1	1	1	1
-10.0	210	176	135	84	43	13	1	1	1	1	1	1	1	1	1
-11.0	307	262	186	101	45	10	1	1	1	1	1	1	1	1	1
-12.0	443	350	217	114	40	16	1	1	1	1	1	1	1	1	1
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-14.0	883	567	402	285	180	112	47	10	1	1	1	1	1	1	1
-15.0	1128	840	659	551	361	233	111	43	6	1	1	1	1	1	1
-16.0	1670	1452	1247	1044	721	555	324	144	44	1	1	1	1	1	1
-17.0	2572	2456	2307	1834	1677	1329	951	517	171	17	1	1	1	1	1
-18.0	4307	4491	4060	4072	3607	3021	2345	1603	795	253	7	1	1	1	1
-19.0	7859	7724	7805	8246	7741	7022	5574	4681	3140	1435	262	31	1	1	1
-20.0	13038	13264	15144	15672	17038	14753	14734	13375	9908	7028	5337	2747	798	1	1
-21.0	22002	25229	28607	29879	29834	31232	33605	31365	27189	26905	22496	18372	10187	4259	1
-22.0	38342	46661	50659	53745	59729	68907	68130	67924	76398	78418	65194	55802	47014	31202	16403
-23.0	69814	78053	82644	101574	117327	120009	132493	153855	161617	146492	144894	142991	121811	94564	72175
-24.0	110333	117098	150561	177459	184456	222787	270653	274862	257007	287892	302025	237459	225528	216679	205525
-25.0	162262	208261	257393	266225	328725	430456	390990	396770	475640	435854	394942	413087	439341	251860	162646
-26.0	268336	334854	360152	438608	580655	521869	567051	695289	597895	584734	659624	497572	327955	250136	221173
-27.0	407827	438389	584801	707325	673079	758191	854416	750854	787015	843225	571572	420692	350164	350943	362386
-28.0	550589	696952	849008	811700	925458	1005501	933590	1016379	922746	669059	512552	472144	505923	567470	560386
-29.0	849247	961123	972494	1098462	1146421	1089651	1235669	1011409	753960	619205	604453	673032	775439	620370	528870
-30.0	1101468	1084561	1299704	1286947	1251772	1467837	1088398	855919	738673	756946	892949	829991	692576	624300	596929
-31.0	1221340	1435956	1414810	1438645	1578916	1187718	952692	844003	902356	1084066	888888	766702	733050	761039	870033
-32.0	1606672	1540909	1573074	1662344	1256751	1037048	956584	1067005	1138703	950786	846438	846381	933130	1008642	830224

	ALTITUDE= 400.0				ENERGY= 0.100				ELECTRONS															
	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0									
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
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27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
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17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
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15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
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11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
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-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
-22.0	3773				1	1	1	1	1	1	1	1	1	1	1									
-23.0	56932	35888	9117	1375	1	1	1	1	1	1	1	1	1	1	1									
-24.0	96710	62536	46342	29949	22097	15239	8215	1419	1	1	1	1	1	1	1									
-25.0	130734	109022	100044	92086	83795	72005	56443	43880																
-26.0	214601	224777	221111	234427	181411	127352	101976	85753	30013	18140	9171	3648												
-27.0	409230	382975	296513	235213	204662	184220	177699	170541	163226	153902	152186	136878	121399	104935	88519									
-28.0	444863	362810	326228	316349	319823	339402	351452	360080	348382	295613	250913	222608	190157	163002	141137									
-29.0	473906	464301	489715	525522	572984	468426	401320	343007	309347	275539	255191	239992	219815	195189	169949									
-30.0	640829	732851	672618	559919	487402	438670	413740	388054	381967	376190	367686	356070	335902	320398	292139									
-31.0	809322	698269	596002	552157	531730	527895	540840	545429	468434	416618	376345	339402	306391	273773	241863									
-32.0	720741	663365	649331	671662	661143	574951	496829	454772	417237	389892	364026	346666	328618	311884	283133									

ALTITUDE= 400.0		ENERGY= 0.100		ELECTRONS												
	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	
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27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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-26.0	8964	848	1	1	1	1	1	1	1	1	1	1	1	1	1	
-27.0	61387	40323	20030	2140	1	1	1	1	1	1	1	1	1	1	1	
-28.0	111158	86279	55684	29572	4382	1	1	1	1	1	1	1	1	1	1	
-29.0	146635	119903	85003	54506	24645	3448	1	1	1	1	1	1	1	1	1	
-30.0	253732	207679	166368	114195	62662	19820	1	1	1	1	1	1	1	1	1	
-31.0	212163	177451	137435	101025	65015	33283	6032	1	1	1	1	1	1	1	1	
-32.0	255155	220732	186788	139504	103082	58588	20290	1	1	1	1	1	1	1	1	

ALTITUDE: 400 KM

ELECTRONS: $E > .25$ MEV

INNER ZONE MODEL: AE5 (SOLAR MIN)

B

ALTITUDE= 400.0 ENERGY= 0.250

ELECTRONS

	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0
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-4.0	1	1	1	1	1	1	12	13	14	13	12	11	10	9	8
-5.0	3	7	13	20	25	17	19	20	19	19	17	14	13	12	12
-6.0	12	20	27	35	38	27	29	28	27	25	22	20	19	18	19
-7.0	25	36	45	51	56	41	41	41	38	33	31	29	28	29	27
-8.0	46	55	65	74	75	58	57	53	46	44	42	40	42	44	41
-9.0	65	77	92	99	105	76	75	70	62	60	59	62	66	64	59
-10.0	89	106	121	131	136	101	93	88	86	84	90	92	94	92	86
-11.0	114	139	158	165	159	125	118	122	123	123	134	145	144	137	122
-12.0	151	178	191	204	203	159	165	164	167	184	206	212	203	198	175
-13.0	177	210	234	244	265	209	222	227	252	284	311	302	301	290	258
-14.0	206	255	295	318	356	281	307	343	390	429	445	431	418	386	352
-15.0	261	316	358	425	492	390	437	501	617	610	647	641	614	543	462
-16.0	318	402	503	582	697	554	679	804	877	897	912	907	825	733	547
-17.0	421	523	631	816	1010	858	1026	1162	1217	1273	1307	1236	1157	901	733
-18.0	568	739	942	1242	1510	1293	1503	1600	1739	1830	1810	1662	1455	1160	972
-19.0	783	1063	1423	1809	2144	1886	2058	2312	2355	2430	2487	2288	1882	1641	1465
-20.0	1108	1572	2017	2478	2866	2552	2778	3104	3340	3331	3171	2736	2451	2416	2352
-21.0	1507	2010	2538	3211	3895	3384	3919	4125	4573	4171	3757	3514	3358	3554	3809
-22.0	1978	2591	3335	4202	5282	4696	5145	5597	5203	4897	4760	4784	5209	5797	5743
-23.0	2519	3347	4460	5476	6933	6018	6856	6418	6041	6165	6492	7309	7913	8367	8874
-24.0	3259	4269	5516	7262	7659	7364	7367	7391	7521	8323	9207	10974	11099	12028	14105
-25.0	3848	5172	6488	7278	8037	7840	8377	9073	10013	11592	13322	13958	15560	18791	23253
-26.0	4436	5588	6536	7880	9284	11024	11887	14545	16948	16948	17678	20398	24249	30687	31909
-27.0	4235	5753	7245	8961	11559	14661	13821	16966	19141	21075	25438	31273	40704	57551	72216
-28.0	4745	6304	8620	11531	14797	19674	19314	21045	24642	29621	38054	47615	50052	66852	97138
-29.0	5415	7747	10638	15130	19130	23778	22311	27949	33879	43472	54924	57494	67372	116565	128022
-30.0	6658	9635	13859	17603	22632	30208	28964	37716	48613	61660	65088	79068	100430	145492	189838
-31.0	8236	11609	15551	21218	29842	40751	40384	52628	63962	71719	87531	115704	129330	209970	229945
-32.0	9172	13279	19365	28682	40923	55497	64982	77999	103711	136229	150295	182187	231762	249121	260415

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-16.0	563	487	403	328	215	159	87	36	10	1	1	1	1	1	1	
-17.0	857	792	716	549	472	352	237	122	37	3	1	1	1	1	1	
-18.0	1385	1389	1201	1136	945	738	532	347	169	53	1	1	1	1	1	
-19.0	2431	2257	2140	2122	1865	1562	1215	994	635	287	51	5	1	1	1	
-20.0	3780	3623	3860	3726	3778	3219	3150	2683	1923	1381	1055	510	146	1	1	
-21.0	5988	6402	6726	6617	6506	6601	6800	6098	5464	5303	4295	3368	1868	761	1	
-22.0	9580	10806	11219	11668	12447	13637	13471	13476	14843	14593	12378	10703	8935	5754	2929	
-23.0	16126	17332	17861	20928	22831	23813	26310	29717	30591	28164	27445	26075	22054	17329	12787	
-24.0	24446	25303	31243	35089	36726	43505	50846	51695	48832	54353	55339	42692	39819	37172	33709	
-25.0	34977	42710	50656	52748	64758	81482	74949	76604	87715	78235	70013	70796	70163	42535	28360	
-26.0	54878	66792	72150	85786	109088	100250	107241	125708	106044	102647	107666	80535	55264	43011	35910	
-27.0	81511	87429	113103	133955	128224	141157	156369	134193	135161	137173	93224	70203	58848	56531	56581	
-28.0	109158	135724	163372	155125	174398	185884	168251	170094	150554	108840	84707	77707	79158	85466	80285	
-29.0	166725	184416	185377	209384	211001	193915	205393	165681	122181	101287	97820	102784	113911	89168	75337	
-30.0	210811	207600	246957	235563	219995	244164	178928	138375	119714	119715	133498	121349	100168	88176	83230	
-31.0	234831	271355	258034	249616	263739	196233	154219	135890	139933	159587	129438	110463	102912	103882	113865	
-32.0	301850	290112	270634	278843	208371	168051	153435	162491	167197	137962	121054	117965	124862	128526	102096	

ALTITUDE=	400.0	ENERGY=		ELECTRONS												
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-27.0	8302	5441	2759	297	1	1	1	1	1	1	1	1	1	1	1	
-28.0	13653	10639	6954	3775	583	1	1	1	1	1	1	1	1	1	1	
-29.0	17051	13721	9961	6323	2980	425	1	1	1	1	1	1	1	1	1	
-30.0	25429	21143	17006	11610	6398	2037	1	1	1	1	1	1	1	1	1	
-31.0	20943	17256	13618	10161	6550	3403	649	1	1	1	1	1	1	1	1	
-32.0	23357	20167	16427	12676	8988	5144	1779	1	1	1	1	1	1	1	1	

M-10

ALTITUDE: 400 KM

ELECTRONS: $E \geq .50$ MEV

INNER ZONE MODEL: AE5 (SOLAR MIN)

C

	ALTITUDE= 402.0		ENERGY= 0.403		ELECTRONS											
	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0	
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	3	5	
-8.0	1	1	1	1	1	1	1	1	1	1	2	3	5	7	10	
-9.0	1	1	1	1	1	1	1	1	2	3	4	6	9	13	16	
-10.0	1	1	1	1	1	1	2	3	4	5	8	11	15	19	24	
-11.0	1	1	1	1	1	2	3	4	5	8	11	15	20	26	33	
-12.0	1	1	1	1	2	2	4	5	7	10	14	20	27	34	44	
-13.0	1	1	1	1	2	3	4	6	9	13	19	26	34	45	56	
-14.0	1	1	1	2	2	4	5	7	11	16	22	31	39	50	62	
-15.0	1	1	1	2	3	4	6	9	13	18	25	35	47	60	74	
-16.0	1	1	1	2	4	5	7	10	14	20	29	40	54	69	88	
-17.0	1	1	2	3	4	6	9	13	17	25	35	47	63	84	106	
-18.0	1	1	1	3	5	7	11	15	22	30	43	58	77	103	136	
-19.0	1	1	2	3	5	8	12	18	26	38	53	71	96	127	167	
-20.0	1	1	1	3	5	8	13	21	31	46	65	93	125	166	218	
-21.0	1	1	1	2	5	9	15	22	35	50	75	108	149	208	278	
-22.0	1	1	1	2	4	8	14	24	37	55	83	119	174	231	309	
-23.0	1	1	1	1	3	7	13	23	37	57	89	131	182	255	336	
-24.0	1	1	1	1	2	5	11	21	35	58	92	138	194	271	374	
-25.0	1	1	1	1	1	3	8	18	33	55	86	132	198	278	385	
-26.0	1	1	1	1	1	1	9	12	25	47	79	127	185	262	358	
-27.0	1	1	1	1	1	1	2	7	17	34	61	103	163	233	342	
-28.0	1	1	1	1	1	1	1	3	9	21	41	82	152	239	377	
-29.0	1	1	1	1	1	1	1	1	5	18	44	92	159	273	436	
-30.0	1	1	1	1	1	1	1	1	6	19	49	96	183	314	504	
-31.0	1	1	1	1	1	1	1	1	5	20	50	111	215	377	611	
-32.0	1	1	1	1	1	1	1	1	4	18	50	119	239	436	762	

ALTITUDE= 400.0		ENERGY= 0.500		ELECTRONS											
	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	2	3	2	3	2	3	2	3	2
-4.0	1	1	1	1	1	3	4	6	6	5	5	5	5	4	4
-5.0	1	1	3	2	4	6	8	9	9	7	7	6	6	5	5
-6.0	3	5	8	6	8	10	12	13	13	10	9	8	8	7	7
-7.0	7	11	14	11	14	16	17	18	18	13	12	11	11	10	10
-8.0	14	18	22	18	21	23	24	24	22	17	16	15	15	15	13
-9.0	21	26	32	26	28	31	32	31	28	21	20	20	20	20	18
-10.0	31	37	44	36	40	40	39	38	37	36	38	38	37	34	29
-11.0	41	50	57	48	52	49	48	49	49	45	51	53	49	44	36
-12.0	55	64	69	61	60	61	63	63	63	67	72	69	62	55	44
-13.0	65	75	82	72	74	76	80	81	87	93	96	87	79	68	54
-14.0	74	89	100	86	86	97	103	112	122	126	121	108	95	78	62
-15.0	91	107	118	107	118	126	136	150	172	159	154	137	117	91	67
-16.0	107	130	155	135	152	165	192	215	216	204	187	166	133	102	65
-17.0	134	160	196	174	199	232	262	274	265	250	229	191	154	103	60
-18.0	170	209	251	225	264	316	339	333	327	307	267	214	159	128	115
-19.0	216	274	344	310	357	407	410	415	382	368	305	240	211	194	179
-20.0	280	367	435	408	447	486	483	481	457	397	337	308	291	295	288
-21.0	340	419	489	494	528	563	581	546	522	449	426	416	408	433	454
-22.0	394	477	561	565	619	666	651	618	566	560	568	583	635	691	736
-23.0	438	531	640	709	793	788	821	708	694	733	787	886	939	1089	1242
-24.0	483	578	675	784	832	883	975	853	894	1007	1112	1309	1444	1677	2072
-25.0	486	591	692	803	916	1084	1212	1082	1212	1404	1604	1834	2193	2767	3494
-26.0	467	610	734	910	1103	1326	1515	1441	1753	2075	2347	2880	3558	4633	5767
-27.0	475	660	853	1070	1400	1770	1673	2038	2378	2822	3593	4641	6155	8462	10826
-28.0	561	757	1045	1394	1785	2364	2871	3832	4871	6484	8441	11642	15397	21784	30165
-29.0	658	942	1291	1814	2367	3128	4035	5462	7279	9594	12765	17803	24276	32539	43336
-30.0	808	1158	1662	2243	3059	4284	5900	7920	10072	11946	15236	20520	28276	38791	51627
-31.0	986	1469	2066	2938	4277	6044	8713	10590	12927	16565	23275	30598	40336	53336	70498
-32.0	1226	1840	2772	4220	6143	8528	10589	13286	18235	24570	32660	43328	57887	76652	100916

M-12

ALTITUDE= 400.0		ENERGY= 0.500		ELECTRONS											
	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-18.0	-16.0	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	3	3	3	2	2	2	1	1	1	1	1	1	1	1	1
-2.0	4	4	4	3	3	3	1	1	1	1	1	1	1	1	1
-3.0	5	5	5	4	4	4	1	1	1	1	1	1	1	1	1
-4.0	6	6	6	5	5	5	1	1	1	1	1	1	1	1	1
-5.0	7	7	7	6	6	6	1	1	1	1	1	1	1	1	1
-6.0	8	8	8	7	7	7	1	1	1	1	1	1	1	1	1
-7.0	9	9	9	8	8	8	1	1	1	1	1	1	1	1	1
-8.0	10	10	10	9	9	9	1	1	1	1	1	1	1	1	1
-9.0	11	11	11	10	10	10	1	1	1	1	1	1	1	1	1
-10.0	12	12	12	11	11	11	1	1	1	1	1	1	1	1	1
-11.0	13	13	13	12	12	12	1	1	1	1	1	1	1	1	1
-12.0	14	14	14	13	13	13	1	1	1	1	1	1	1	1	1
-13.0	15	15	15	14	14	14	1	1	1	1	1	1	1	1	1
-14.0	16	16	16	15	15	15	1	1	1	1	1	1	1	1	1
-15.0	17	17	17	16	16	16	1	1	1	1	1	1	1	1	1
-16.0	18	18	18	17	17	17	1	1	1	1	1	1	1	1	1
-17.0	19	19	19	18	18	18	1	1	1	1	1	1	1	1	1
-18.0	20	20	20	19	19	19	1	1	1	1	1	1	1	1	1
-19.0	21	21	21	20	20	20	1	1	1	1	1	1	1	1	1
-20.0	22	22	22	21	21	21	1	1	1	1	1	1	1	1	1
-21.0	23	23	23	22	22	22	1	1	1	1	1	1	1	1	1
-22.0	24	24	24	23	23	23	1	1	1	1	1	1	1	1	1
-23.0	25	25	25	24	24	24	1	1	1	1	1	1	1	1	1
-24.0	26	26	26	25	25	25	1	1	1	1	1	1	1	1	1
-25.0	27	27	27	26	26	26	1	1	1	1	1	1	1	1	1
-26.0	28	28	28	27	27	27	1	1	1	1	1	1	1	1	1
-27.0	29	29	29	28	28	28	1	1	1	1	1	1	1	1	1
-28.0	30	30	30	29	29	29	1	1	1	1	1	1	1	1	1
-29.0	31	31	31	30	30	30	1	1	1	1	1	1	1	1	1
-30.0	32	32	32	31	31	31	1	1	1	1	1	1	1	1	1
-31.0	33	33	33	32	32	32	1	1	1	1	1	1	1	1	1
-32.0	34	34	34	33	33	33	1	1	1	1	1	1	1	1	1

ALTITUDE= 400.0		ENERGY= 0.500		ELECTRONS													
	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0		
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	150	1206	377	69	1	1	1	1	1	1	1	1	1	1	1	1	1
-24.0	2065	2466	1675	1226	873	574	292	49	1	1	1	1	1	1	1	1	1
-25.0	3572	3934	3463	2967	2577	2055	1505	1085	763	492	275	119	1	1	1	1	1
-26.0	4718	6724	6216	5930	4597	3257	2668	2206	1899	1662	1372	1231	992	749	521	1740	2260
-27.0	6967	9657	7318	5843	4934	4436	4042	3766	3550	3224	3052	2753	2464	2071	1740	2260	2336
-28.0	10852	8649	7613	6989	6829	6722	6522	6440	5996	4847	4114	3521	3026	2633	2336	2336	2336
-29.0	10724	10019	9787	9928	9834	7662	6183	5153	4434	3956	3589	3264	2934	2633	2336	2336	2336
-30.0	12782	13264	11429	8712	7149	6110	5446	5015	4657	4343	4127	3955	3668	3380	3097	2897	2897
-31.0	13664	10544	8588	7378	6577	6275	5981	5541	4736	4036	3505	3159	2831	2487	2199	2199	2199
-32.0	10289	8833	7868	7559	6944	5596	4708	4033	3615	3312	2996	2778	2562	2368	2172	2172	2172

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 400.0		ENERGY= 0.500		ELECTRONS													
	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0		
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
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-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
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-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-26.0	258	23	1	1	1	1	1	1	1	1	1	1	1	1	1		
-27.0	1253	828	434	47	1	1	1	1	1	1	1	1	1	1	1		
-28.0	1783	1430	937	508	83	1	1	1	1	1	1	1	1	1	1		
-29.0	1994	1620	1205	772	376	53	1	1	1	1	1	1	1	1	1		
-30.0	2613	2201	1707	1215	678	216	1	1	1	1	1	1	1	1	1		
-31.0	1940	1599	1280	947	622	329	65	1	1	1	1	1	1	1	1		
-32.0	1922	1638	1369	1040	752	432	153	1	1	1	1	1	1	1	1		

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ALTITUDE: 400 KM

ELECTRONS: E > 1.0 MEV

INNER ZONE MODEL: AE5 (SOLAR MIN)

D

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 400.0		ENERGY= 1.000		ELECTRONS											
	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	2	2	3	4
-11.0	1	1	1	1	1	1	1	1	1	2	3	4	7	6	7
-12.0	1	1	1	1	1	2	2	3	2	3	6	7	9	8	10
-13.0	1	1	1	1	1	2	3	3	3	4	8	10	12	11	14
-14.0	1	1	1	1	2	3	3	4	5	6	9	12	14	15	18
-15.0	1	1	1	1	2	3	3	4	5	7	10	13	16	17	20
-16.0	1	1	1	2	2	3	4	5	6	8	11	15	18	20	23
-17.0	1	1	1	2	2	3	4	5	7	9	12	16	20	22	26
-18.0	1	1	1	2	2	4	5	6	8	10	13	17	22	25	30
-19.0	1	1	1	1	2	4	5	7	9	12	15	19	24	29	36
-20.0	1	1	1	1	2	3	5	8	10	14	17	22	27	34	41
-21.0	1	1	1	1	2	3	5	8	11	15	20	26	32	40	48
-22.0	1	1	1	1	1	2	5	7	10	14	20	27	35	44	54
-23.0	1	1	1	1	1	2	4	7	10	14	19	26	35	43	53
-24.0	1	1	1	1	1	2	3	5	8	13	18	25	32	41	50
-25.0	1	1	1	1	1	1	2	4	7	11	16	22	29	37	46
-26.0	1	1	1	1	1	1	1	3	5	8	12	18	25	32	40
-27.0	1	1	1	1	1	1	1	1	3	6	9	14	19	25	30
-28.0	1	1	1	1	1	1	1	1	1	3	6	9	13	17	28
-29.0	1	1	1	1	1	1	1	1	1	1	3	8	10	14	18
-30.0	1	1	1	1	1	1	1	1	1	1	4	9	11	15	20
-31.0	1	1	1	1	1	1	1	1	1	1	4	11	13	17	22
-32.0	1	1	1	1	1	1	1	1	1	1	5	12	15	19	25

ALTITUDE= 400.0		ENERGY= 1.000		ELECTRONS											
	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-8.0	3	5	6	8	9	11	12	12	11	11	11	11	11	11	11
-9.0	6	7	9	11	13	14	14	14	14	14	14	13	12	11	10
-10.0	9	11	13	15	17	17	17	17	17	17	17	17	17	16	15
-11.0	12	15	18	19	19	20	20	20	20	21	21	21	21	21	20
-12.0	17	20	21	22	23	24	24	24	25	26	26	26	26	26	25
-13.0	20	23	25	26	27	28	29	31	32	31	27	22	17	13	9
-14.0	23	26	29	30	33	34	36	37	39	34	29	23	17	12	8
-15.0	27	30	33	36	39	41	45	47	43	37	30	23	16	10	5
-16.0	31	35	40	43	47	51	54	52	46	38	31	22	15	8	4
-17.0	36	41	47	51	56	62	61	55	48	39	30	20	12	10	10
-18.0	42	48	55	63	68	70	64	58	47	37	28	18	10	18	17
-19.0	49	58	67	74	74	72	65	57	47	35	26	17	27	29	25
-20.0	57	69	75	77	75	72	65	54	43	36	28	40	41	45	40
-21.0	51	69	74	77	75	71	61	49	46	50	54	58	65	72	60
-22.0	62	68	72	73	72	65	55	59	63	71	80	92	98	120	140
-23.0	59	64	69	68	66	62	70	78	87	102	115	137	159	190	234
-24.0	54	58	61	61	67	77	91	107	123	146	169	203	248	315	390
-25.0	45	49	54	67	82	103	121	147	183	221	260	326	403	516	653
-26.0	35	50	64	84	106	133	172	212	255	313	407	524	684	827	1090
-27.0	41	61	81	106	142	183	241	287	371	478	640	815	1067	1413	1966
-28.0	53	74	105	143	186	248	313	429	551	731	968	1232	1668	2374	3039
-29.0	66	97	134	189	253	345	455	616	819	1126	1413	1990	2751	3729	4787
-30.0	84	120	175	244	341	484	668	888	1209	1592	2233	3184	4191	5439	7967
-31.0	103	159	229	331	485	683	971	1309	1756	2452	3635	4640	6190	8826	10387
-32.0	136	207	314	479	689	978	1348	1854	2732	3863	5051	6975	9782	11322	12511

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 400.0		ENERGY= 1.000		ELECTRONS											
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30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-21.0	94	105	111	121	144	164	179	183	191	205	173	141	85	34	1
-22.0	160	181	217	270	321	371	439	507	606	615	571	521	436	278	144
-23.0	271	344	424	555	632	826	1024	1235	1444	1353	1370	1287	1083	859	617
-24.0	499	607	827	1005	1298	1759	2137	2395	2406	2658	2679	2126	1918	1688	1462
-25.0	849	1150	1513	1926	2610	3477	3504	3731	4326	3815	3363	3276	3065	1851	1260
-26.0	1476	2037	2623	3545	4721	4740	5336	6082	5116	4796	4827	3436	2343	1789	1479
-27.0	2511	3236	4567	5866	6176	6937	7535	6390	6284	5934	3879	2871	2314	2144	1962
-28.0	4035	5586	7250	7431	8518	8914	7888	7742	6383	4420	3354	2900	2803	2710	2388
-29.0	6912	8238	8893	10189	10168	9082	9175	6899	4871	3887	3490	3438	3363	2465	1952
-30.0	9487	9957	12156	11293	10327	10723	7352	5426	4463	4138	4226	3428	2615	2150	1907
-31.0	11271	13362	12318	11623	11459	7948	5964	4956	4728	4852	3523	2768	2377	2228	2212
-32.0	14816	13325	12539	12015	8367	6417	5482	5391	4945	3643	2938	2602	2531	2308	1702

	ALTITUDE= 400.0				ENERGY= 1.000				ELECTRONS									
	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-26.0	1342	1247	1115	1020	778	552	452	371	319	275	229	204	164	126	1	1	1	1
-27.0	1954	1631	1213	958	797	710	632	578	537	480	449	403	359	301	256	211	176	141
-28.0	2769	2383	1894	1368	1018	970	915	881	804	647	547	470	405	356	307	261	226	191
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-30.0	4628	4013	3012	2230	1613	1210	915	770	663	588	526	476	436	396	356	316	286	256
-31.0	5704	4956	3765	2782	2018	1515	1115	915	770	663	588	526	476	436	396	356	316	286
-32.0	6993	6084	4611	3418	2518	1915	1415	1115	915	770	663	588	526	476	436	396	356	316

ORIGINAL PAGE IS
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ALTITUDE= 400.0		ENERGY= 1.000		ELECTRONS												
	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	
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9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-26.0	44	4	1	1	1	1	1	1	1	1	1	1	1	1	1	
-27.0	184	122	65	7	1	1	1	1	1	1	1	1	1	1	1	
-28.0	243	195	129	71	12	1	1	1	1	1	1	1	1	1	1	
-29.0	255	208	156	102	49	25	1	1	1	1	1	1	1	1	1	
-30.0	298	252	196	139	78	36	1	1	1	1	1	1	1	1	1	
-31.0	203	169	136	102	67	41	7	1	1	1	1	1	1	1	1	
-32.0	182	155	130	99	71	41	14	1	1	1	1	1	1	1	1	

M-20

ALTITUDE: 400 KM

ELECTRONS: E > 1.5 MEV

INNER ZONE MODEL: AE5 (SOLAR MIN)

E

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 400.0		ENERGY= 1.500		ELECTRONS											
	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2
-11.0	1	1	1	1	1	1	1	1	2	2	2	3	4	3	4
-12.0	1	1	1	1	1	1	2	2	2	3	4	5	6	6	8
-13.0	1	1	1	1	1	2	2	3	3	4	5	6	7	8	10
-14.0	1	1	1	1	1	2	2	3	4	5	6	7	8	10	11
-15.0	1	1	1	1	2	2	3	3	4	5	6	7	8	11	13
-16.0	1	1	1	1	2	2	3	4	5	6	7	8	9	11	15
-17.0	1	1	1	1	2	2	3	4	5	6	7	8	10	12	16
-18.0	1	1	1	1	2	3	4	4	5	6	7	8	11	14	18
-19.0	1	1	1	1	2	2	3	4	5	6	7	8	12	15	20
-20.0	1	1	1	1	1	2	3	3	5	6	8	10	13	16	22
-21.0	1	1	1	1	1	2	3	3	4	6	8	10	13	16	23
-22.0	1	1	1	1	1	1	2	3	5	7	9	12	15	18	21
-23.0	1	1	1	1	1	1	1	2	4	6	8	11	13	16	19
-24.0	1	1	1	1	1	1	1	2	3	4	6	9	11	13	16
-25.0	1	1	1	1	1	1	1	1	2	3	4	6	8	10	12
-26.0	1	1	1	1	1	1	1	1	1	2	3	4	6	7	8
-27.0	1	1	1	1	1	1	1	1	1	1	1	2	3	4	7
-28.0	1	1	1	1	1	1	1	1	1	1	1	1	2	3	9
-29.0	1	1	1	1	1	1	1	1	1	1	1	1	2	4	12
-30.0	1	1	1	1	1	1	1	1	1	1	1	1	2	5	14
-31.0	1	1	1	1	1	1	1	1	1	1	1	1	2	6	16
-32.0	1	1	1	1	1	1	1	1	1	1	1	3	6	10	23

ALTITUDE= 400.0 ENERGY= 1.500

	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	2	2	3	4	5	6	7	8	9	10	11	12	13	14	15
-10.0	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
-11.0	7	8	10	12	13	15	17	19	21	23	25	27	29	31	33
-12.0	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37
-13.0	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
-14.0	12	14	15	16	17	18	19	20	21	22	23	24	25	26	27
-15.0	14	16	17	18	19	20	21	22	23	24	25	26	27	28	29
-16.0	16	18	20	21	22	23	24	25	26	27	28	29	30	31	32
-17.0	18	20	23	24	25	26	27	28	29	30	31	32	33	34	35
-18.0	21	23	25	26	27	28	29	30	31	32	33	34	35	36	37
-19.0	23	26	29	30	31	32	33	34	35	36	37	38	39	40	41
-20.0	26	29	30	31	32	33	34	35	36	37	38	39	40	41	42
-21.0	26	28	28	28	28	28	28	28	28	28	28	28	28	28	28
-22.0	24	25	25	24	22	22	22	22	22	22	22	22	22	22	22
-23.0	21	22	22	21	19	19	19	19	19	19	19	19	19	19	19
-24.0	18	18	18	17	18	18	18	18	18	18	18	18	18	18	18
-25.0	13	14	14	18	23	29	33	40	48	59	73	97	123	161	213
-26.0	9	14	18	23	30	37	46	56	69	89	121	161	215	271	362
-27.0	11	17	23	29	39	49	63	79	107	143	198	257	348	472	657
-28.0	15	20	29	39	49	65	87	125	166	227	307	403	556	796	1046
-29.0	18	26	36	49	68	98	133	187	255	360	465	662	922	1289	1715
-30.0	22	32	46	67	98	144	204	277	389	526	743	1067	1445	1951	2908
-31.0	27	43	65	97	146	211	305	424	582	817	1217	1607	2224	3222	3932
-32.0	38	60	93	146	214	310	441	617	911	1292	1759	2513	3573	4304	4937

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 400.0		ENERGY= 1.500		ELECTRONS											
	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-18.0	-16.0	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-3.0	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	3	2	2	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	3	2	2	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	3	2	2	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	4	4	4	4	4	3	2	1	1	1	1	1	1	1	1
-19.0	8	8	9	9	9	8	7	6	4	2	1	1	1	1	1
-20.0	14	15	18	18	20	21	24	22	17	14	12	6	1	1	1
-21.0	27	31	34	38	47	54	59	62	66	73	62	51	32	13	1
-22.0	48	56	70	89	107	124	151	182	218	225	218	205	172	111	59
-23.0	84	111	140	186	211	287	371	448	500	530	544	520	446	363	262
-24.0	161	202	276	338	460	637	781	913	954	1072	1090	888	813	713	612
-25.0	281	386	515	681	950	1273	1366	1490	1750	1578	1418	1384	1282	773	528
-26.0	494	694	936	1263	1744	1849	2141	2463	2133	2019	2027	1423	964	732	599
-27.0	862	1155	1701	2184	2401	2790	3076	2674	2635	2474	1592	1167	931	848	760
-28.0	1452	2037	2708	2921	3432	3659	3287	3254	2642	1798	1350	1150	1087	1024	886
-29.0	2515	3086	3506	4103	4172	3790	3850	2837	1969	1549	1366	1312	1249	914	720
-30.0	3577	3930	4894	4642	4313	4492	3010	2180	1764	1601	1588	1268	965	787	694
-31.0	4458	5395	5070	4871	4766	3240	2384	1945	1813	1803	1299	1017	864	800	779
-32.0	5987	5492	251	5005	3402	2555	2139	2050	1832	1339	1074	939	898	799	577

M-23

ALTITUDE= 400.0 ENERGY= 1.500

ELECTRONS

	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	13	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	190	108	37	7	1	1	1	1	1	1	1	1	1	1	1
-24.0	323	225	155	113	78	49	24	4	1	1	1	1	1	1	1
-25.0	405	325	279	228	190	144	101	70	49	32	19	9	1	1	1
-26.0	534	485	426	361	291	210	173	143	122	105	88	78	63	40	24
-27.0	738	606	455	361	301	267	236	214	198	176	163	146	130	121	109
-28.0	656	516	445	355	372	350	326	310	280	224	189	163	140	125	106
-29.0	609	547	509	490	459	348	276	226	194	172	153	140	125	106	95
-30.0	655	637	522	385	308	257	225	201	182	167	155	146	135	122	109
-31.0	622	459	352	301	260	239	218	193	156	127	107	94	82	72	61
-32.0	431	356	304	278	240	178	140	114	98	86	76	69	62	57	51

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 400.0		ENERGY= 1.500		ELECTRONS													
	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0		
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-26.0	17	45	24	2	1	1	1	1	1	1	1	1	1	1	1	1	1
-27.0	66				4	1	1	1	1	1	1	1	1	1	1	1	1
-28.0	85	68	45	25	1	1	1	1	1	1	1	1	1	1	1	1	1
-29.0	85	70	52	34	17	2	1	1	1	1	1	1	1	1	1	1	1
-30.0	94	79	61	44	24	8	1	1	1	1	1	1	1	1	1	1	1
-31.0	56	46	37	28	19	10	2	1	1	1	1	1	1	1	1	1	1
-32.0	45	38	32	24	18	10	3	1	1	1	1	1	1	1	1	1	1

2-2

M-25

ALTITUDE: 400 KM

ELECTRONS: $E > 2.0$ MEV

INNER ZONE MODEL: AE5 (SOLAR MIN)

F

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 400.0		ENERGY= 2.000		ELECTRONS											
	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2
-11.0	1	1	1	1	1	1	1	1	1	1	2	2	2	3	4
-12.0	1	1	1	1	1	1	1	2	2	2	3	3	4	4	5
-13.0	1	1	1	1	1	1	2	2	3	3	4	4	5	6	7
-14.0	1	1	1	1	1	1	2	2	3	3	4	5	6	7	8
-15.0	1	1	1	1	1	1	2	2	3	3	4	5	6	7	8
-16.0	1	1	1	1	1	1	2	2	3	3	4	5	6	7	8
-17.0	1	1	1	1	2	2	2	3	3	4	5	6	7	8	9
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	2	2	3	3	4	5	6	7	8	9
-20.0	1	1	1	1	1	1	2	2	3	3	4	5	6	7	8
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

M-26

ALTITUDE= 400.0		ENERGY= 2.000		ELECTRONS											
	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

ORIGINAL PAGE IS
OF POOR QUALITY

	ALTITUDE= 400.0				ENERGY= 2.000				ELECTRONS											
	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-18.0	-16.0	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0					
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-4.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-5.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-6.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-7.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-8.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-9.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-10.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-19.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
-20.0	6	6	8	8	8	8	10	9	7	6	5	2	1	1	1	1	1	1	1	1
-21.0	11	13	14	16	20	23	26	27	29	31	27	22	14	5	5	5	5	5	5	5
-22.0	20	24	30	39	47	55	67	80	96	97	95	91	77	204	171	124	124	124	124	124
-23.0	36	48	62	82	94	128	165	196	218	238	244	235	204	386	338	289	289	289	289	289
-24.0	70	89	123	150	206	281	339	402	430	483	493	412	386	605	364	250	250	250	250	250
-25.0	125	172	230	303	412	551	605	671	790	726	669	653	451	341	277	277	277	277	277	277
-26.0	220	309	418	563	757	828	963	1108	994	951	958	667	428	384	338	338	338	338	338	338
-27.0	384	513	748	954	1070	1261	1398	1252	1241	1164	741	540	485	446	376	376	376	376	376	376
-28.0	649	892	1183	1308	1547	1674	1534	1538	1235	831	620	577	534	376	289	289	289	289	289	289
-29.0	1099	1350	1574	1846	1909	1772	1818	1321	906	706	613	531	389	310	266	266	266	266	266	266
-30.0	1569	1765	2202	2130	2020	2120	1397	998	798	712	689	535	334	280	284	284	284	284	284	284
-31.0	1994	2432	2330	2291	2254	1498	1087	875	600	775	535	404	331	280	284	284	284	284	284	284
-32.0	2698	2528	2471	2351	1570	1162	958	899	778	544	421	358	331	280	284	284	284	284	284	284

	ALTITUDE= 400.0		ENERGY= 2.000		ELECTRONS											
	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-23.0	90	51	18	3	1	1	1	1	1	1	1	1	1	1	1	
-24.0	154	106	74	54	37	23	11	1	1	1	1	1	1	1	1	
-25.0	191	132	129	103	85	64	44	30	21	14	8	3	1	1	1	
-26.0	243	217	187	164	123	88	72	59	43	35	22	13	8	4	1	
-27.0	321	268	189	148	121	106	93	83	76	67	63	55	45	36	28	
-28.0	270	208	176	153	142	131	120	113	99	77	63	53	45	36	28	
-29.0	239	210	191	180	163	147	127	113	99	87	70	58	44	37	29	
-30.0	246	232	178	123	92	74	63	55	49	43	40	37	34	30	27	
-31.0	212	144	106	85	70	62	55	47	38	30	25	22	19	16	14	
-32.0	128	99	61	71	59	43	33	26	22	19	17	15	13	12	11	

ORIGINAL PAGE IS
OF POOR QUALITY

A.TITUDE= 400.0		ENERGY= 2.000		ELECTRONS											
	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-27.0	2	17	9	1	1	1	1	1	1	1	1	1	1	1	1
-28.0	24	22	15	8	1	1	1	1	1	1	1	1	1	1	1
-29.0	24	19	15	10	5	1	1	1	1	1	1	1	1	1	1
-30.0	23	20	15	11	6	2	1	1	1	1	1	1	1	1	1
-31.0	13	11	8	6	4	2	1	1	1	1	1	1	1	1	1
-32.0	9	8	7	5	3	2	1	1	1	1	1	1	1	1	1

ALTITUDE: 400 KM

ELECTRONS: E > 3.0 MEV

INNER ZONE MODEL: AE5 (SOLAR MIN)

G

ALTITUDE= 400.0		ENERGY= 3.000		ELECTRONS											
	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

ALTITUDE= 400.0		ENERGY= 3.000		ELECTRONS											
	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

	ELECTRONS											
	ALTI- TITUDE=	400.C	ENERGY=	3.000								
	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-18.0	-16.0	-14.0	-12.0	-10.0	-8.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1
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-3.0	1	1	1	1	1	1	1	1	1	1	1	1
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-6.0	1	1	1	1	1	1	1	1	1	1	1	1
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-21.0	1	1	1	1	1	1	1	1	1	1	1	1
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-31.0	1	1	1	1	1	1	1	1	1	1	1	1
-32.0	1	1	1	1	1	1	1	1	1	1	1	1

	ALTITUDE= 400.0		ENERGY= 3.000		ELECTRONS												
	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0		
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
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22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
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17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
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14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
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0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
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-27.0	15	12	8	6	5	3	2	1	1	1	1	1	1	1	1		
-28.0	18	13	10	8	7	6	5	3	3	2	2	2	2	2	1		
-29.0	14	11	9	8	7	6	5	4	4	3	3	2	2	1	1		
-30.0	13	11	9	8	7	6	5	4	3	3	2	2	1	1	1		
-31.0	12	10	8	6	5	4	3	3	2	2	1	1	1	1	1		
-32.0	10	7	5	4	3	2	1	1	1	1	1	1	1	1	1		

ALTITUDE: 400 KM

PROTONS: $E > 1$. MEV

TRAPPED PROTON MODEL: AP8 (SOLAR MIN)

H

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 400.0		ENERGY= 1.000		PROTONS											
	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	5	13	14
-11.0	1	1	1	1	1	1	1	1	1	1	1	5	10	23	41
-12.0	1	1	1	1	1	1	1	1	1	1	4	10	22	43	69
-13.0	1	1	1	1	1	1	1	1	1	3	8	20	47	75	111
-14.0	1	1	1	1	1	1	1	1	2	5	13	34	72	109	162
-15.0	1	1	1	1	1	1	1	1	3	9	24	54	109	155	222
-16.0	1	1	1	1	1	1	1	1	6	15	36	88	134	206	289
-17.0	1	1	1	1	1	1	1	2	18	28	60	112	175	266	362
-18.0	1	1	1	1	1	1	1	3	32	36	79	137	222	321	389
-19.0	1	1	1	1	1	1	1	4	17	45	93	195	262	330	426
-20.0	1	1	1	1	1	1	1	7	26	59	127	191	275	354	464
-21.0	1	1	1	1	1	1	1	14	41	75	127	202	291	409	555
-22.0	1	1	1	1	1	1	1	12	36	77	132	229	336	474	544
-23.0	1	1	1	1	1	1	1	1	15	54	134	242	326	432	513
-24.0	1	1	1	1	1	1	1	1	1	18	87	175	290	398	537
-25.0	1	1	1	1	1	1	1	1	5	28	82	175	295	437	647
-26.0	1	1	1	1	1	1	1	1	13	46	112	229	408	653	712
-27.0	1	1	1	1	1	1	1	4	28	85	195	293	380	452	522
-28.0	1	1	1	1	1	1	1	9	33	72	127	198	273	339	412
-29.0	1	1	1	1	1	1	1	9	28	60	98	152	218	289	361
-30.0	1	1	1	1	1	1	1	10	29	58	94	146	206	277	368
-31.0	1	1	1	1	1	1	1	9	30	64	102	158	228	310	414
-32.0	1	1	1	1	1	1	1								

	ALTITUDE= 400.0		ENERGY= 1.000		PROTONS											
	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0	
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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-10.0	23	32	41	50	61	76	83	88	85	81	75	62	58	54	37	
-11.0	37	55	71	95	105	120	125	134	126	121	113	115	87	67	36	
-12.0	64	55	122	136	162	179	192	188	189	195	169	135	113	79	22	
-13.0	107	149	185	207	238	255	272	286	260	224	199	181	147	75	38	
-14.0	155	213	263	295	340	350	350	329	306	280	259	248	151	101	80	
-15.0	228	295	365	383	395	406	392	378	362	370	345	243	178	163	179	
-16.0	295	377	416	431	445	458	449	481	479	431	344	273	276	305	253	
-17.0	376	430	457	454	521	533	593	606	521	443	388	374	466	339	219	
-18.0	411	462	522	557	609	700	670	613	537	488	507	656	433	301	222	
-19.0	442	508	545	675	777	723	679	630	608	629	732	545	385	288	250	
-20.0	511	613	736	778	755	735	711	721	788	823	644	471	366	316	314	
-21.0	593	738	757	767	760	778	792	939	893	730	553	450	394	376	408	
-22.0	654	706	738	758	814	913	1057	958	807	632	537	473	462	497	550	
-23.0	610	665	753	829	972	1071	992	862	715	616	558	553	578	678	787	
-24.0	605	717	865	1045	1057	999	884	766	675	632	620	683	773	951	1156	
-25.0	669	878	1014	1003	979	874	782	719	684	716	777	891	1100	1334	1176	
-26.0	874	516	929	891	841	776	755	732	767	864	1007	1234	1562	1316	1169	
-27.0	741	765	777	755	749	740	763	841	946	1104	1372	1679	1477	1295	1228	
-28.0	577	622	658	689	722	775	870	997	1199	1525	1772	1565	1423	1355	1367	
-29.0	491	552	617	687	766	891	1057	1284	1637	1836	1666	1531	1456	1525	1658	
-30.0	448	539	634	763	906	1102	1362	1744	1853	1716	1597	1557	1628	1780	2152	
-31.0	472	582	727	892	1122	1456	1875	1810	1699	1626	1636	1714	1914	2282	2051	
-32.0	534	695	914	1148	1515	1781	1710	1668	1643	1683	1820	2039	2416	2161	1722	

ALTITUDE= 400.0		ENERGY= 1.000		PROTONS											
	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-19.0	-16.0	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0
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31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-9.0	18	3	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	13	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	9	9	7	8	6	3	1	1	1	1	1	1	1	1	1
-13.0	32	37	37	32	17	11	7	2	1	1	1	1	1	1	1
-14.0	90	111	59	41	32	25	18	9	4	1	1	1	1	1	1
-15.0	181	102	73	57	51	42	36	23	12	4	1	1	1	1	1
-16.0	156	110	93	84	79	74	64	44	26	11	3	1	1	1	1
-17.0	161	138	126	122	123	121	106	86	51	25	12	5	1	1	1
-18.0	185	179	161	189	153	103	175	130	76	48	26	12	5	2	1
-19.0	241	249	273	252	305	298	224	155	112	74	50	26	11	4	2
-20.0	328	355	396	444	443	330	260	208	156	114	79	43	19	9	5
-21.0	460	520	596	576	447	387	325	275	221	166	120	66	37	24	14
-22.0	665	764	741	586	519	452	409	358	297	227	165	112	76	53	31
-23.0	995	869	716	659	616	576	535	477	375	271	207	164	133	97	63
-24.0	1013	874	796	785	743	734	693	520	389	326	287	249	196	147	106
-25.0	1033	936	925	938	967	950	667	536	466	423	388	341	286	204	159
-26.0	1092	1099	1154	1207	1168	836	683	617	573	552	521	398	305	258	236
-27.0	1233	1346	1424	1347	1001	839	769	746	748	682	513	418	360	354	328
-28.0	1518	1676	1573	1161	983	919	914	931	807	646	537	492	473	462	423
-29.0	1892	1761	1335	1119	1064	1095	1126	938	773	667	610	601	611	523	459
-30.0	1901	1488	1273	1203	1241	1348	1377	901	781	755	750	704	623	560	514
-31.0	1603	1402	1338	1410	1496	1196	1303	912	874	890	808	727	671	626	601
-32.0	1500	1473	1533	1623	1307	1129	1034	1006	981	899	818	768	732	707	667

ALTITUDE= 400.0		ENERGY= 1.000		PROTONS													
	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0		
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-23.0	35	19	13	8	6	4	3	2	1	1	1	1	1	1	1	1	1
-24.0	73	39	26	16	10	6	4	3	2	1	1	1	1	1	1	1	1
-25.0	132	71	46	28	17	11	7	5	3	2	1	1	1	1	1	1	1
-26.0	212	119	79	48	30	19	12	8	5	3	2	1	1	1	1	1	1
-27.0	309	174	116	72	45	28	17	11	7	5	3	2	1	1	1	1	1
-28.0	360	219	145	90	56	35	21	13	8	5	3	2	1	1	1	1	1
-29.0	415	276	184	112	67	41	25	15	9	6	4	3	2	1	1	1	1
-30.0	486	339	227	140	82	51	31	19	12	8	5	3	2	1	1	1	1
-31.0	550	409	277	176	103	63	38	23	14	9	6	4	3	2	1	1	1
-32.0	649	512	345	220	125	78	47	29	18	11	7	5	3	2	1	1	1

A.TITUDE= 400.0		ENERGY= 1.000		PROTONS													
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32.0	1	2	1	1	1	3	1	1	1	1	1	1	1	1	1		
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
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27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
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21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
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19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
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-26.0	13	7	3	1	1	1	1	1	1	1	1	1	1	1	1		
-27.0	33	21	13	5	1	1	1	1	1	1	1	1	1	1	1		
-28.0	61	46	29	15	5	1	1	1	1	1	1	1	1	1	1		
-29.0	97	77	54	32	14	4	1	1	1	1	1	1	1	1	1		
-30.0	137	108	82	52	24	7	1	1	1	1	1	1	1	1	1		
-31.0	283	217	156	104	54	18	4	1	1	1	1	1	1	1	1		
-32.0	515	396	279	178	94	36	8	1	1	1	1	1	1	1	1		

ALTITUDE: 400 KM

PROTONS: $E > 10$. MEV

TRAPPED PROTON MODEL: AP8 (SOLAR MIN)

ALTITUDE= 400.0		ENERGY= 10.000		PROTONS											
	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	3	10	11
-13.0	1	1	1	1	1	1	1	1	1	1	1	3	7	18	18
-14.0	1	1	1	1	1	1	1	1	1	1	2	6	16	33	32
-15.0	1	1	1	1	1	1	1	1	1	1	4	13	34	56	53
-16.0	1	1	1	1	1	1	1	1	1	2	7	22	53	82	85
-17.0	1	1	1	1	1	1	1	1	1	4	14	37	81	119	126
-18.0	1	1	1	1	1	1	1	1	2	8	23	64	102	162	175
-19.0	1	1	1	1	1	1	1	1	4	15	43	88	136	215	233
-20.0	1	1	1	1	1	1	1	2	7	25	60	108	180	266	300
-21.0	1	1	1	1	1	1	1	3	12	34	73	159	218	279	328
-22.0	1	1	1	1	1	1	1	5	20	48	105	160	235	307	367
-23.0	1	1	1	1	1	1	1	11	34	63	108	175	255	364	409
-24.0	1	1	1	1	1	1	1	10	30	66	116	204	304	434	501
-25.0	1	1	1	1	1	1	1	1	13	47	121	222	300	400	502
-26.0	1	1	1	1	1	1	1	1	4	26	81	164	269	370	477
-27.0	1	1	1	1	1	1	1	1	1	42	76	162	276	409	499
-28.0	1	1	1	1	1	1	1	1	1	74	103	212	377	602	605
-29.0	1	1	1	1	1	1	1	1	23	62	173	265	345	410	654
-30.0	1	1	1	1	1	1	1	1	28	53	112	176	243	301	472
-31.0	1	1	1	1	1	1	1	1	25	53	87	137	196	259	366
-32.0	1	1	1	1	1	1	1	1	25	53	85	131	187	251	323
								7	26	58	94	145	211	283	336
															378

M-40

ALTITUDE= 400.0 ENERGY= 10.000

PROTONS

	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	2	6	9	10	11	13	15	14	13	12	11	10	8	7	6
-9.0	10	14	19	22	22	30	34	33	31	30	28	27	20	19	18
-10.0	19	26	33	39	46	56	61	64	62	60	57	48	46	44	31
-11.0	29	43	56	74	80	92	95	102	97	94	90	94	73	57	31
-12.0	51	75	96	106	126	139	150	148	152	159	141	115	98	69	20
-13.0	83	117	146	164	189	204	220	235	216	189	171	159	132	69	35
-14.0	121	169	212	238	278	289	292	277	261	243	230	226	140	93	73
-15.0	181	238	300	316	329	341	333	326	317	331	317	224	166	151	163
-16.0	238	311	347	362	378	394	391	425	432	396	319	255	255	281	227
-17.0	311	360	387	423	452	469	529	552	481	411	362	351	430	306	195
-18.0	345	353	451	487	540	629	612	568	500	454	475	605	393	267	198
-19.0	378	441	515	605	704	663	631	588	568	588	685	500	343	257	227
-20.0	447	545	664	708	696	686	666	675	736	768	589	423	327	285	285
-21.0	529	668	694	711	711	730	742	876	833	667	498	401	354	343	372
-22.0	598	652	688	711	764	857	986	891	737	570	476	423	420	454	515
-23.0	567	640	706	778	910	997	921	786	645	545	499	498	529	620	740
-24.0	565	672	810	974	983	927	805	690	598	564	558	626	707	899	1078
-25.0	623	818	946	932	908	795	703	637	611	643	711	817	1019	1256	1094
-26.0	817	855	863	812	764	695	667	653	688	786	924	1130	1483	1218	1060
-27.0	679	698	707	679	667	655	682	754	859	1014	1257	1600	1355	1176	1120
-28.0	521	559	587	609	643	693	781	908	1101	1398	1678	1432	1295	1243	1230
-29.0	435	491	550	615	687	802	970	1180	1501	1736	1526	1393	1335	1370	1486
-30.0	401	483	570	687	825	1012	1250	1599	1750	1568	1453	1425	1464	1596	1853
-31.0	431	532	666	818	1030	1336	1721	1693	1551	1476	1494	1541	1716	1995	1801
-32.0	488	636	837	1052	1391	1685	1581	1528	1487	1540	1634	1827	2131	1885	1477

ALTITUDE= 400.0		ENERGY= 10.000		PROTONS											
	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-18.0	-16.0	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	5	3	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	15	3	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	8	8	6	6	4	2	1	1	1	1	1	1	1	1	1
-13.0	29	33	31	27	15	9	5	7	3	1	1	1	1	1	1
-14.0	80	97	51	36	28	22	14	19	10	3	1	1	1	1	1
-15.0	160	90	64	51	47	37	31	37	21	9	2	1	1	1	1
-16.0	138	98	84	77	72	66	56	74	43	21	10	4	1	1	1
-17.0	144	124	115	113	114	109	92	111	66	42	22	10	4	1	1
-18.0	167	165	166	174	180	175	154	137	99	66	42	22	10	4	1
-19.0	218	231	254	268	284	272	199	187	140	102	67	37	17	7	4
-20.0	304	329	371	465	407	407	231	245	198	150	101	57	33	21	12
-21.0	431	482	554	540	407	342	288	320	266	204	142	98	69	47	28
-22.0	619	722	675	530	461	405	486	431	339	241	182	144	117	84	55
-23.0	919	798	654	594	545	513	368	320	266	204	142	98	69	47	28
-24.0	937	808	722	686	667	661	621	461	344	288	258	218	170	128	93
-25.0	947	844	840	830	863	863	593	479	412	369	348	302	245	176	139
-26.0	989	989	1033	1088	1049	737	607	536	507	489	458	344	266	225	206
-27.0	1112	1184	1265	1200	876	731	673	661	651	603	437	361	319	305	286
-28.0	1360	1468	1387	1011	847	810	790	820	702	537	457	423	410	395	359
-29.0	1637	1568	1165	966	942	937	1000	788	627	559	521	517	507	413	346
-30.0	1685	1285	1094	1051	1069	1175	977	723	644	642	641	552	465	403	372
-31.0	1379	1202	1152	1223	1273	956	800	739	742	749	604	519	465	439	420
-32.0	1282	1251	1336	1352	1038	892	926	844	791	647	565	518	502	472	430

	ALTITUDE= 400.0		ENERGY= 10.000				PROTONS									
	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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-23.0	32	17	11	7	5	3	2	1	1	1	1	1	1	1	1	
-24.0	66	33	22	14	9	6	4	3	2	1	1	1	1	1	1	
-25.0	117	100	66	74	60	51	40	30	23	18	13	10	7	4	3	
-26.0	189	168	108	137	110	89	73	63	54	46	40	33	27	23	16	
-27.0	274	236	190	161	138	124	112	101	90	83	73	63	57	48	38	
-28.0	288	249	216	199	181	169	159	143	133	120	106	96	85	77	65	
-29.0	310	280	263	246	232	212	187	174	163	149	139	130	118	105	91	
-30.0	349	338	305	279	264	240	226	213	201	186	181	171	154	140	123	
-31.0	387	349	331	310	293	263	272	259	248	236	223	209	194	176	159	
-32.0	400	380	363	353	347	321	312	305	299	286	273	260	244	225	204	

ALTITUDE= 400.0		ENERGY= 10.000		PROTONS											
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21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-27.0	29	19	11	5	1	1	1	1	1	1	1	1	1	1	1
-28.0	53	40	25	13	4	1	1	1	1	1	1	1	1	1	1
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-31.0	139	113	89	61	36	13	3	1	1	1	1	1	1	1	1
-32.0	175	147	112	78	48	21	5	1	1	1	1	1	1	1	1

ALTITUDE: 400 KM

PROTONS: E > 25. MEV

TRAPPED PROTON MODEL: AP8 (SOLAR MIN)

ORIGINAL PAGE IS
OF POOR QUALITY

J

ALTITUDE= 400.0		ENERGY= 25.000		PROTONS											
	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-11.0	1	1	1	1	1	1	1	1	1	1	1	1	4	6	10
-12.0	1	1	1	1	1	1	1	1	1	1	1	3	8	10	18
-13.0	1	1	1	1	1	1	1	1	1	1	1	6	18	31	48
-14.0	1	1	1	1	1	1	1	1	1	1	3	11	28	45	72
-15.0	1	1	1	1	1	1	1	1	1	2	6	19	44	67	101
-16.0	1	1	1	1	1	1	1	1	1	4	11	34	57	93	138
-17.0	1	1	1	1	1	1	1	1	2	7	22	47	78	127	185
-18.0	1	1	1	1	1	1	1	1	3	13	33	52	106	166	215
-19.0	1	1	1	1	1	1	1	1	6	19	43	95	137	185	258
-20.0	1	1	1	1	1	1	1	3	12	28	64	103	160	220	311
-21.0	1	1	1	1	1	1	1	6	20	40	72	124	190	285	414
-22.0	1	1	1	1	1	1	1	6	19	45	85	157	245	368	431
-23.0	1	1	1	1	1	1	1	9	19	35	98	188	258	351	424
-24.0	1	1	1	1	1	1	1	1	9	14	72	147	243	340	466
-25.0	1	1	1	1	1	1	1	1	4	24	70	151	258	386	576
-26.0	1	1	1	1	1	1	1	1	10	39	96	200	359	579	621
-27.0	1	1	1	1	1	1	1	2	21	69	163	249	323	381	434
-28.0	1	1	1	1	1	1	1	5	25	57	103	163	222	273	329
-29.0	1	1	1	1	1	1	1	6	22	48	79	123	176	233	291
-30.0	1	1	1	1	1	1	1	7	22	47	77	119	170	226	298
-31.0	1	1	1	1	1	1	1	6	23	52	85	132	188	255	342
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ALTITUDE= 400.0		ENERGY= 25.000		PROTONS											
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-9.0	5	8	11	13	12	16	18	17	16	15	14	14	11	11	10
-10.0	11	15	19	22	26	31	33	34	33	33	31	28	27	27	19
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-13.0	47	67	85	94	110	119	130	141	134	123	119	118	104	59	32
-14.0	69	98	124	141	166	175	183	180	178	176	177	187	122	85	68
-15.0	105	141	180	193	206	221	224	230	237	264	268	197	152	142	154
-16.0	141	188	217	233	251	273	285	330	355	339	282	235	241	267	213
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-21.0	424	565	595	620	634	665	697	845	784	617	450	358	316	306	65
-22.0	509	564	605	639	703	811	953	836	679	514	423	378	370	410	33
-23.0	496	571	643	724	869	956	858	721	580	483	444	440	471	554	65
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M-46

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 400.0		ENERGY= 25.000		PROTONS											
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	1115	1090	1135	1151	879	711	651	641	601				336	310	264

ALTITUDE= 400.0

ENERGY= 25.000

PROTONS

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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 400.0		ENERGY= 25.000				PROTONS										
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-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-26.0	10	6	2	1	1	1	1	1	1	1	1	1	1	1	1	
-27.0	25	17	10	4	1	1	1	1	1	1	1	1	1	1	1	
-28.0	42	32	21	12	4	1	1	1	1	1	1	1	1	1	1	
-29.0	56	46	33	22	10	3	1	1	1	1	1	1	1	1	1	
-30.0	70	58	44	31	15	4	1	1	1	1	1	1	1	1	1	
-31.0	75	62	50	37	22	9	2	1	1	1	1	1	1	1	1	
-32.0	82	71	58	42	26	13	2	1	1	1	1	1	1	1	1	

ALTITUDE: 400 KM

PROTONS: E > 50. MEV

TRAPPED PROTON MODEL: AP8 (SOLAR MIN)

K

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 400.C		ENERGY= 50.000		PROTONS											
	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	2	5	9
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	4	9	15
-14.0	1	1	1	1	1	1	1	1	1	1	1	2	9	15	24
-15.0	1	1	1	1	1	1	1	1	1	1	1	4	14	23	36
-16.0	1	1	1	1	1	1	1	1	1	1	2	8	22	34	51
-17.0	1	1	1	1	1	1	1	1	1	1	4	17	28	47	70
-18.0	1	1	1	1	1	1	1	1	1	2	10	23	39	65	98
-19.0	1	1	1	1	1	1	1	1	1	6	17	31	54	89	124
-20.0	1	1	1	1	1	1	1	1	3	10	22	49	75	108	164
-21.0	1	1	1	1	1	1	1	1	6	14	33	58	98	145	221
-22.0	1	1	1	1	1	1	1	3	10	22	43	80	131	211	329
-23.0	1	1	1	1	1	1	1	3	10	28	57	114	189	301	357
-24.0	1	1	1	1	1	1	1	5	12	24	75	154	214	294	359
-25.0	1	1	1	1	1	1	1	1	12	61	136	226	209	293	405
-26.0	1	1	1	1	1	1	1	3	21	64	136	229	343	513	513
-27.0	1	1	1	1	1	1	1	9	36	91	186	332	526	568	568
-28.0	1	1	1	1	1	1	1	2	20	65	158	236	302	353	397
-29.0	1	1	1	1	1	1	1	4	22	52	94	147	201	246	294
-30.0	1	1	1	1	1	1	1	5	19	43	71	109	155	204	252
-31.0	1	1	1	1	1	1	1	5	19	41	68	105	147	194	254
-32.0	1	1	1	1	1	1	1	5	19	44	72	112	161	218	291

ALTITUDE= 400.C		ENERGY= 50.000		PROTONS											
	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	2	2	3	3	3	3	2	2	1	1	1	1	1	1
-9.0	3	4	6	6	6	8	8	7	6	6	6	7	5	5	5
-10.0	5	6	10	11	13	15	16	17	16	16	16	14	14	14	10
-11.0	8	13	16	21	22	25	26	28	27	27	27	29	26	22	13
-12.0	15	22	28	31	36	40	43	43	45	49	49	45	46	34	13
-13.0	24	34	43	48	56	61	66	73	73	71	75	81	77	49	29
-14.0	36	50	63	72	85	91	100	103	109	117	127	149	102	75	63
-15.0	53	72	93	102	112	126	134	147	165	200	220	165	133	130	146
-16.0	72	98	118	131	149	172	191	241	279	279	238	205	218	249	200
-17.0	100	126	149	180	214	246	323	381	344	307	289	294	381	267	162
-18.0	125	158	204	244	306	413	429	410	377	365	399	526	342	222	159
-19.0	158	208	274	369	486	470	451	449	459	456	582	424	283	205	176
-20.0	225	315	436	496	508	571	608	748	697	556	495	346	258	220	130
-21.0	323	462	492	517	536	710	845	740	609	460	372	324	314	260	87
-22.0	418	468	507	544	606	846	757	644	516	424	378	372	394	464	338
-23.0	415	484	550	627	763	756	653	548	462	425	417	458	527	638	764
-24.0	437	539	671	834	824	639	553	488	457	478	516	600	735	878	764
-25.0	517	695	804	772	732	542	507	486	509	569	670	825	1024	846	792
-26.0	698	713	735	663	607	494	505	555	619	729	917	1097	943	833	755
-27.0	575	576	569	538	515	512	573	651	788	1011	1152	998	911	870	897
-28.0	427	447	458	465	481	584	897	1155	1192	1087	1051	976	932	999	1074
-29.0	342	378	416	458	508	723	891	1159	1072	1033	1015	994	1059	1155	1377
-30.0	308	366	426	504	595	965	1226	1092	1054	1044	1042	1111	1244	1461	1339
-31.0	322	393	486	594	745	1158	1092	1054	1044	1072	1178	1325	1547	1401	1056
-32.0	370	475	618	774	1001										

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 400.0 ENERGY= 50.000

PROTONS

	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-18.0	-16.0	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	6	6	5	4	3	1	1	1	1	1	1	1	1	1	1
-13.0	24	28	27	22	12	6	3	1	1	1	1	1	1	1	1
-14.0	72	86	43	29	22	16	10	5	2	1	1	1	1	1	1
-15.0	143	75	53	40	36	28	21	13	7	2	1	1	1	1	1
-16.0	115	80	67	60	55	49	38	24	14	6	1	1	1	1	1
-17.0	115	100	90	86	65	78	62	46	27	14	7	3	1	1	1
-18.0	133	127	127	132	130	122	101	70	44	30	17	8	4	1	1
-19.0	172	175	188	200	201	182	131	94	70	48	34	18	8	3	1
-20.0	230	246	269	296	285	203	163	134	101	76	54	32	15	6	3
-21.0	317	351	398	374	284	248	212	181	145	113	82	51	29	19	11
-22.0	449	506	484	381	330	298	278	243	198	157	115	81	57	40	24
-23.0	655	570	465	425	410	385	364	325	253	186	145	115	94	70	47
-24.0	660	566	519	504	502	515	471	338	256	222	198	168	134	103	77
-25.0	667	615	597	641	657	658	429	346	309	263	226	186	131	104	77
-26.0	709	714	756	826	818	537	434	391	384	361	337	243	186	131	104
-27.0	805	867	984	921	639	518	479	483	481	430	295	241	211	203	188
-28.0	981	1144	1043	729	595	567	568	477	477	348	292	241	211	203	188
-29.0	1246	1158	832	674	651	662	725	523	396	346	325	270	260	254	213
-30.0	1247	921	764	725	744	832	573	445	391	346	325	319	312	223	179
-31.0	986	838	791	840	885	616	485	439	391	346	325	312	235	196	173
-32.0	894	855	909	925	662	532	492	490	443	327	260	231	213	196	152

	ALTITUDE= 400.0		ENERGY= 50.000		PROTONS													
	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0			
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-24.0	53	42	34	28	21	16	12	8	5	3	1	1	1	1	1	1	1	1
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-26.0	127	116	108	99	80	60	47	33	23	14	11	8	6	4	3	2	1	1
-27.0	177	146	116	95	76	60	47	33	23	14	11	8	6	4	3	2	1	1
-28.0	162	134	116	103	91	82	74	67	60	54	45	37	30	24	19	14	10	7
-29.0	154	139	126	114	104	94	84	72	65	59	52	47	43	38	33	28	23	18
-30.0	163	153	145	133	121	111	101	91	81	74	68	64	60	56	52	48	44	40
-31.0	154	125	107	96	99	83	79	73	66	64	66	67	68	69	70	71	72	73
-32.0	129	112	104	100	91	77	69	61	57	54	52	50	49	48	47	46	45	44

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 400.0		ENERGY= 50.000		PROTONS											
	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-27.0	17	12	7	3	1	1	1	1	1	1	1	1	1	1	1
-28.0	24	20	13	7	2	1	1	1	1	1	1	1	1	1	1
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-31.0	32	27	22	16	10	4	1	1	1	1	1	1	1	1	1
-32.0	34	30	24	18	12	5	1	1	1	1	1	1	1	1	1

M-54

ALTITUDE: 400 KM

PROTONS: E > 100. MEV

TRAPPED PROTON MODEL: AP8 (SOLAR MIN)

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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 400.0		ENERGY=100.000				PROTONS									
	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	2	5
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	4	10
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	8	19
-17.0	1	1	1	1	1	1	1	1	1	1	1	2	6	18	36
-18.0	1	1	1	1	1	1	1	1	1	1	1	5	15	33	51
-19.0	1	1	1	1	1	1	1	1	1	1	4	16	29	46	78
-20.0	1	1	1	1	1	1	1	1	1	3	12	23	44	72	121
-21.0	1	1	1	1	1	1	1	1	1	8	18	39	69	123	211
-22.0	1	1	1	1	1	1	1	1	3	11	28	64	116	201	240
-23.0	1	1	1	1	1	1	1	1	2	12	46	103	144	201	247
-24.0	1	1	1	1	1	1	1	1	1	8	43	89	146	206	285
-25.0	1	1	1	1	1	1	1	1	2	16	46	97	165	245	365
-26.0	1	1	1	1	1	1	1	1	7	28	65	131	213	373	395
-27.0	1	1	1	1	1	1	1	1	17	52	113	164	208	242	272
-28.0	1	1	1	1	1	1	1	3	18	44	75	110	147	177	209
-29.0	1	1	1	1	1	1	1	3	15	34	56	86	119	152	185
-30.0	1	1	1	1	1	1	1	3	14	31	51	78	110	144	186
-31.0	1	1	1	1	1	1	1	3	12	31	52	80	114	153	202
-32.0	1	1	1	1	1	1	1								

ALTITUDE= 400.0 ENERGY=100.000

PROTONS

	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	2	2	3	3	2	2	3	3	4	6	10	3	5	5
-12.0	2	4	5	5	5	6	7	8	11	16	19	19	21	17	8
-13.0	4	6	8	9	12	14	18	25	27	29	35	43	45	33	21
-14.0	6	11	15	20	27	32	38	42	49	59	71	95	70	53	46
-15.0	11	20	33	37	43	51	59	70	88	120	147	113	96	92	103
-16.0	20	35	45	52	64	80	96	138	177	233	211	203	211	186	142
-17.0	36	50	63	82	105	132	196	254	324	442	341	285	374	160	120
-18.0	50	68	95	127	174	264	288	278	261	257	241	200	200	152	121
-19.0	71	103	149	223	324	317	315	311	324	353	413	291	188	164	159
-20.0	117	182	279	333	339	348	358	389	442	458	341	200	200	190	198
-21.0	196	308	332	353	370	399	431	529	492	383	280	225	228	238	252
-22.0	281	318	347	377	425	504	597	621	420	316	263	234	228	310	340
-23.0	284	334	384	441	542	597	632	443	352	297	270	268	274	310	340
-24.0	304	378	476	589	580	530	449	373	322	301	298	320	351	409	471
-25.0	365	491	568	543	513	437	378	340	322	338	359	400	471	541	459
-26.0	495	503	495	456	414	372	353	342	322	338	359	400	471	541	459
-27.0	398	397	389	367	356	345	355	389	428	486	584	674	572	497	457
-28.0	293	308	318	325	338	360	402	448	522	641	708	605	543	514	523
-29.0	243	268	295	324	358	409	471	555	683	729	643	582	550	583	625
-30.0	223	263	304	356	412	487	583	722	730	658	605	586	619	671	798
-31.0	232	279	338	403	491	616	760	707	648	615	614	649	721	845	782
-32.0	253	320	408	498	629	712	664	634	620	631	667	766	893	818	613

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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 400.0		ENERGY=100.000		PROTONS											
	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-18.0	-16.0	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	4	5	3	3	2	1	1	1	1	1	1	1	1	1	1
-13.0	19	23	23	18	9	4	2	1	1	1	1	1	1	1	1
-14.0	53	67	36	22	16	11	6	3	1	1	1	1	1	1	1
-15.0	104	61	41	30	26	18	12	6	3	1	1	1	1	1	1
-16.0	89	63	50	43	38	31	21	11	6	2	1	1	1	1	1
-17.0	90	75	65	60	56	47	32	21	11	6	3	1	1	1	1
-18.0	100	92	88	88	82	70	49	31	20	14	7	4	2	1	1
-19.0	124	122	126	129	120	97	67	48	36	24	16	8	4	1	1
-20.0	159	165	173	180	163	113	89	73	55	41	28	16	7	3	1
-21.0	212	226	245	219	162	139	120	101	81	62	44	27	14	9	5
-22.0	289	312	287	221	192	172	159	138	113	87	63	45	31	21	12
-23.0	404	342	274	248	240	224	211	187	146	107	82	66	53	38	24
-24.0	397	335	303	296	294	300	273	197	148	127	113	96	75	56	40
-25.0	397	360	350	377	385	385	250	201	179	160	149	127	103	70	55
-26.0	418	418	444	486	479	313	253	226	218	204	189	133	100	81	74
-27.0	471	507	580	537	370	301	276	277	270	237	159	127	110	103	95
-28.0	572	667	608	422	345	326	324	340	260	185	151	140	130	127	100
-29.0	725	676	453	390	373	376	407	282	208	177	167	159	149	97	70
-30.0	728	535	440	416	421	465	306	232	199	196	191	143	97	73	59
-31.0	572	482	453	473	491	327	251	222	217	215	140	99	76	64	54
-32.0	512	488	510	510	349	272	242	239	211	139	101	79	67	54	40

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	ALTITUDE= 400.0		ENERGY=100.000		PROTONS												
	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0		
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
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4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
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-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-26.0	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-27.0	6	4	2	1	1	1	1	1	1	1	1	1	1	1	1		
-28.0	6	4	3	1	1	1	1	1	1	1	1	1	1	1	1		
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-30.0	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1		
-31.0	5	4	3	2	1	1	1	1	1	1	1	1	1	1	1		
-32.0	6	5	4	3	2	1	1	1	1	1	1	1	1	1	1		

ALTITUDE: 400 KM

PROTONS: E > 250. MEV

TRAPPED PROTON MODEL: AP8 (SOLAR MIN)

M

ORIGINAL PAGE IS
OF POOR QUALITY

[illegible]

ALTITUDE= 400.0 ENERGY=250.000

PROTONS

	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	2	2	3	5	2	2	2	2
-14.0	1	1	1	1	1	2	3	4	6	10	14	27	21	15	11
-15.0	1	1	2	3	3	5	8	11	17	30	45	34	27	22	20
-16.0	1	3	4	5	8	12	17	32	49	57	49	41	37	34	25
-17.0	5	9	8	12	18	27	50	79	70	61	56	52	53	36	24
-18.0	10	18	16	24	40	75	88	83	75	70	71	74	47	34	27
-19.0	22	43	31	57	101	97	93	88	87	86	87	62	43	35	26
-20.0	50	96	80	102	102	101	100	103	106	102	73	53	44	39	30
-21.0	86	102	101	105	107	110	112	125	111	83	63	53	49	46	47
-22.0	84	95	106	107	115	128	139	119	92	72	62	58	54	58	58
-23.0	85	101	121	139	134	138	122	98	81	70	66	67	67	72	72
-24.0	93	118	131	124	112	99	88	81	79	85	89	96	106	91	97
-25.0	112	114	109	101	95	88	85	84	90	98	107	119	133	103	93
-26.0	84	87	89	85	85	84	88	97	106	117	133	144	119	103	98
-27.0	65	71	75	78	83	90	100	111	125	146	152	127	114	108	100
-28.0	57	64	72	80	89	101	116	132	155	157	136	123	116	101	99
-29.0	55	65	76	89	102	118	137	161	158	140	128	124	120	100	99
-30.0	57	69	83	98	117	142	165	152	138	130	130	136	149	139	139
-31.0	61	77	96	114	139	153	142	134	131	133	143	157	179	147	99

ORIGINAL PAGE IS
OF POOR QUALITY

M-61

ALTITUDE= 400.0		ENERGY=250.000		FRCIONS											
	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-18.0	-16.0	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	4	4	2	2	1	1	1	1	1	1	1	1	1	1	1
-14.0	9	9	5	4	3	1	1	1	1	1	1	1	1	1	1
-15.0	16	10	7	6	5	1	1	1	1	1	1	1	1	1	1
-16.0	16	12	10	8	6	2	1	1	1	1	1	1	1	1	1
-17.0	19	16	10	8	6	5	2	1	1	1	1	1	1	1	1
-18.0	23	21	14	12	9	7	3	1	1	1	1	1	1	1	1
-19.0	29	23	19	17	13	9	5	1	1	1	1	1	1	1	1
-20.0	37	36	26	23	18	12	8	5	3	1	1	1	1	1	1
-21.0	48	46	34	29	23	16	12	8	4	2	1	1	1	1	1
-22.0	63	59	45	36	27	22	16	11	6	3	1	1	1	1	1
-23.0	80	65	51	40	35	28	21	14	8	4	2	1	1	1	1
-24.0	78	67	53	49	42	35	27	17	11	6	3	2	1	1	1
-25.0	80	74	61	59	51	43	31	20	15	8	6	5	3	1	1
-26.0	87	88	72	69	64	51	30	24	20	12	11	6	5	3	1
-27.0	99	104	89	85	70	42	33	28	25	17	15	12	8	4	3
-28.0	120	129	102	92	49	41	36	33	31	25	18	10	8	5	4
-29.0	144	117	74	57	46	44	40	39	27	18	13	11	8	7	4
-30.0	128	84	66	57	51	48	46	30	20	15	13	11	8	4	2
-31.0	91	72	63	63	55	54	32	22	17	14	13	7	3	2	1
-32.0	77	69	63	61	37	26	21	18	14	6	3	2	1	1	1

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ALTITUDE= 400.0		ENERGY=250.000				PROTONS										
	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-25.0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-26.0	3	2	2	1	1	1	1	1	1	1	1	1	1	1	1	
-27.0	4	2	1	1	1	1	1	1	1	1	1	1	1	1	1	
-28.0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

ORIGINAL PAGE IS
OF POOR QUALITY

M-63

ALTITUDE: 400 KM

PROTONS: E > 500. MEV

TRAPPED PROTON MODEL: AP8 (SOLAR MIN)

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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 400.0		ENERGY=500.000		PROTONS											
	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

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ALTITUDE= 400.0 ENERGY=500.000

PROTONS

	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 400.0 ENERGY=500.000

	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-18.0	-16.0	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	3	2	2	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	4	3	3	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	4	4	4	2	1	1	1	1	1	1	1	1	1	1	1
-24.0	4	5	5	3	1	1	1	1	1	1	1	1	1	1	1
-25.0	6	7	6	4	2	1	1	1	1	1	1	1	1	1	1
-26.0	7	8	7	5	3	1	1	1	1	1	1	1	1	1	1
-27.0	8	9	8	6	4	2	1	1	1	1	1	1	1	1	1
-28.0	10	11	10	8	5	3	2	1	1	1	1	1	1	1	1
-29.0	11	12	11	9	6	4	3	1	1	1	1	1	1	1	1
-30.0	12	13	12	10	7	5	4	2	1	1	1	1	1	1	1
-31.0	13	14	13	11	8	6	5	3	1	1	1	1	1	1	1
-32.0	14	15	14	12	9	7	6	4	2	1	1	1	1	1	1

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ALTITUDE: 500 KM

ELECTRONS: $E > .10$ MEV

INNER ZONE MODEL: AE5 (SOLAR MIN)

0

A.TITUDE= 500.0 ENERGY= 0.100

ELECTRONS

	-120.0	-118.0	-116.0	-114.0	-112.0	-110.0	-108.0	-106.0	-104.0	-102.0	-100.0	-98.0	-96.0	-94.0	-92.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	3	5
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	2	2	4
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	2	4	7
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	2	5	8
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	4	9
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	4	9
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	2	7
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

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ALTITUDE= 500.0		ENERGY= 0.100		ELECTRONS											
	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 500.0		ENERGY= 0.100		ELECTRONS															
	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0				
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	2	12	33	58	83	92	98	89	84	74	66	53	43				
-2.0	1	9	26	53	89	123	140	146	141	126	112	102	82	68	61				
-3.0	22	48	91	139	181	204	221	209	189	170	157	128	114	97	90				
-4.0	84	138	209	267	292	322	296	286	257	241	198	166	152	142	136				
-5.0	201	279	348	417	426	431	409	391	370	305	258	238	224	216	214				
-6.0	364	459	521	593	610	599	563	533	442	401	349	331	321	340	346				
-7.0	538	663	719	753	791	775	776	642	584	511	488	476	508	519	561				
-8.0	728	870	948	1015	1028	1067	936	852	748	719	706	758	780	879	910				
-9.0	990	1108	1273	1319	1390	1289	1168	1096	1057	1046	1131	1171	1327	1440	1351				
-10.0	1276	1482	1640	1721	1679	1510	1508	1458	1450	1578	1756	1877	2140	2160	2243				
-11.0	1569	1860	1901	1942	1965	1951	2011	2141	2196	2463	2825	3190	3217	3406	3350				
-12.0	1875	2128	2272	2415	2535	2603	2773	3049	3443	3979	4698	4824	5208	5471	5236				
-13.0	2113	2514	2832	3100	3373	3589	3954	4491	5230	6251	7192	7419	8406	8197	8207				
-14.0	2455	3061	3562	4100	4635	5110	6216	7289	8803	10612	11184	12037	12891	13072	12157				
-15.0	3129	3835	4664	5594	6571	7513	9451	11519	14430	15542	17049	18687	19348	18145	14904				
-16.0	3844	4945	6289	7864	9604	12137	14919	19264	21200	23782	26696	28364	25282	21158	19489				
-17.0	5176	6994	8729	11379	14438	19072	25103	28248	3203	37169	39098	32858	29562	27967					
-18.0	7160	9527	13267	17000	22457	31759	36539	43196	50694	50082	43576	40485	37360	38028	42604				
-19.0	10821	15123	19505	27533	36215	45590	55293	62470	59186	53088	51075	51143	53299	57411	67868				
-20.0	15842	23153	32980	42195	50805	67617	74772	70057	65432	62414	64385	68635	76243	88815	91059				
-21.0	23895	33078	46326	57118	78389	80629	79107	77232	76950	78228	86246	98927	114249	125931	145137				
-22.0	33025	44473	63633	82936	82175	84721	86801	90558	95895	110013	124247	142430	152755	167271	223160				
-23.0	43609	65299	78171	82372	85163	92270	101130	112166	127642	157046	171278	189139	225810	288125	402429				
-24.0	57842	68069	76218	87253	96325	106888	124024	148071	180339	198211	226318	278307	363636	472019	481699				
-25.0	56554	67276	79655	93553	110361	135427	170505	201022	228772	271801	330868	440090	560131	581089	641071				
-26.0	56972	72937	92621	115850	145528	184063	218161	250296	310654	394148	514925	643791	684004	766595	972793				
-27.0	63833	83094	112558	144313	195394	229731	269334	335498	445168	604501	711407	752366	896045	1148043	1262882				
-28.0	78680	104915	146139	189273	234522	282551	372036	465840	673990	774976	852647	1011578	1313210	1427330	1510915				
-29.0	98499	137407	179218	232855	299108	385022	541349	742576	826462	920488	1133673	1462240	1567846	1690349	2102542				
-30.0	118150	162411	219426	292290	400327	576630	777847	831078	973904	1211169	1623356	1662518	1838840	2263162	2485614				
-31.0	145886	205092	295289	420389	556846	724192	835565	1005122	1273519	1675773	1781243	1986910	2511733	2608230	2535250				
-32.0	198283	285290	421354	594288	693660	828418	1045591	1349850	1677982	1818346	2119360	2691314	2666817	2647957	2956605				

	A.TITUDE= 500.0			ENERGY= 0.100			ELECTRONS											
	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-18.0	-16.0	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0			
32.0	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1			
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
6.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
5.0	5	4	4	3	2	2	2	2	1	1	1	1	1	1	1			
4.0	7	6	5	4	3	4	3	2	2	1	1	1	1	1	1			
3.0	11	9	7	6	7	6	5	4	3	2	1	1	1	1	1			
2.0	16	12	10	8	7	6	5	4	3	2	1	1	1	1	1			
1.0	20	16	14	12	11	9	8	6	4	3	2	1	1	1	1			
0.0	28	23	20	18	17	14	11	9	7	5	3	2	1	1	1			
-1.0	39	34	32	28	26	22	18	14	10	7	4	2	1	1	1			
-2.0	57	51	50	46	39	33	28	22	15	10	5	2	1	1	1			
-3.0	86	85	79	64	62	51	41	32	22	13	6	2	1	1	1			
-4.0	134	136	126	111	94	79	64	47	30	16	7	1	1	1	1			
-5.0	217	204	189	168	148	125	96	63	39	19	6	1	1	1	1			
-6.0	360	329	309	268	234	188	138	84	44	21	5	1	1	1	1			
-7.0	543	508	497	428	361	276	177	106	54	17	4	1	1	1	1			
-8.0	852	825	753	667	539	391	246	121	54	15	5	1	1	1	1			
-9.0	1397	1274	1198	1019	783	517	296	140	53	21	5	1	1	1	1			
-10.0	2193	2055	1745	1417	1067	652	385	228	134	61	18	1	1	1	1			
-11.0	3372	3075	2666	2003	1459	985	719	482	263	129	54	1	1	1	1			
-12.0	5183	4828	3822	2782	2230	1606	1294	875	570	292	117	38	5	1	1			
-13.0	7711	6305	4947	4234	3571	3083	2511	1810	1211	804	391	159	30	1	1			
-14.0	9700	8166	7524	6814	6268	5408	4592	3724	2753	1830	1079	540	161	8	1			
-15.0	13471	12473	11318	11018	10974	9626	8016	7886	6346	4773	3241	1541	737	156	234			
-16.0	19352	18910	19759	20286	18624	18409	16934	15751	13845	11034	8223	5115	2913	1162	2633			
-17.0	29261	30701	32071	31224	32479	33894	35927	34444	27800	24370	20371	15425	10080	5124	14935			
-18.0	48142	48470	49596	54807	64202	71399	84134	57918	57030	54267	47521	37384	29162	22751	14935			
-19.0	68481	73900	86220	99631	116288	105263	106337	114670	120969	111144	53640	90600	64337	77278	63345			
-20.0	103978	121748	157945	167558	165802	173140	203429	213835	196118	192221	203795	212325	192493	153823	124248			
-21.0	170616	219472	227242	236412	271491	330198	336370	329560	349184	405405	403119	537539	572119	506506	424934			
-22.0	306026	311698	324656	386632	481830	456516	483942	554901	685845	575223	521906	537539	572119	506506	424934			
-23.0	392063	424079	501310	645019	611916	668525	812856	854949	792802	767126	851068	831643	698447	666456	657131			
-24.0	524429	649442	790195	799409	897227	1106782	1069633	1024563	1079240	1192338	1038826	960177	1001271	936785	691519			
-25.0	802237	965175	975060	1114127	1468134	1300709	1268430	1411496	1399927	1265024	1269009	1329704	955369	759663	609786			
-26.0	1126051	1175977	1340705	1711323	1527179	1542020	1820135	1605093	1520473	1607379	1391920	1087710	873808	753450	713327			
-27.0	1361939	1609272	1933623	1760030	1807993	2048655	1818858	1791836	1867799	1474959	1175099	1001825	928764	952299	1028132			
-28.0	1853695	2139260	1975598	2072381	2245323	2017014	2061759	1952652	1563583	1292873	1146703	1116596	1232287	1220192	1054806			
-29.0	2322347	2157507	2321594	2440057	2221098	2309451	2059442	1680711	1409464	1315878	1341447	1527434	1279698	1127456	1024508			
-30.0	2378771	2585695	2605416	2418507	2554362	2161966	1779805	1530227	1475426	1562484	1579818	1363902	1224659	1159983	1191427			
-31.0	2782270	2729117	2591447	2779803	2265629	1886431	1664550	1636167	1790751	1634414	1444800	1334795	1325494	1437559	1392630			
-32.0	2831852	2719164	2885030	2338169	1989216	1762042	1780790	1960869	1698386	1534844	1449122	1501837	1656891	1395703	1226790			

ALTITUDE= 500.0		ENERGY= 0.100		ELECTRONS													
	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0		
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
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27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
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-18.0	818	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-19.0	8292	3025	354	1	1	1	1	1	1	1	1	1	1	1	1		
-20.0	37547	24375	11195	3995	1	1	1	1	1	1	1	1	1	1	1		
-21.0	102399	64793	62312	32803	14644	4669	1	1	1	1	1	1	1	1	1		
-22.0	256822	192468	142961	107092	85131	61616	38674	17869	1	1	1	1	1	1	1		
-23.0	370461	346383	333032	295188	180936	107959	74208	52972	1	1	1	1	1	1	1		
-24.0	654987	457600	319858	233130	173350	141997	124524	108029	35192	22211	16246	9072	3473	1	1		
-25.0	507120	394006	325275	292750	267230	251648	245351	223874	85171	73356	62947	50861	38579	28383	18158		
-26.0	526834	482499	471356	495578	490412	508986	430395	362160	215988	195567	186389	155762	135354	111379	85863		
-27.0	710202	756986	793094	653890	546965	483908	423350	383631	261950	227516	195746	155762	135354	111379	85863		
-28.0	991373	826013	711650	644441	595740	564026	543440	550942	332737	302113	278278	261011	232198	206791	126143		
-29.0	910709	830589	792398	777649	806059	847733	851651	743320	548789	542820	531245	520908	496184	473240	432848		
-30.0	585893	959355	1059068	1072681	926751	818767	743895	666883	674067	607877	548673	504366	461962	419958	378334		
-31.0	1283007	1205099	1055808	934426	851599	790799	762297	747511	622345	584339	560859	536713	504924	463287	427494		
-32.0	1212435	1063356	990651	931869	922123	950636	880705	776332	708643	646085	592797	553610	514880	480896	440666		
	1128070	1072172	1007943	1057042	919654	818976	750372	689499	653155	626695	608470	581824	559015	531660	507129		

	ALTITUDE= 500.0		ENERGY= 0.100		ELECTRONS										
	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	8356	1708	1	1	1	1	1	1	1	1	1	1	1	1	1
-24.0	59564	36070	15886	1	1	1	1	1	1	1	1	1	1	1	1
-25.0	101149	78635	51926	26257	2721	1	1	1	1	1	1	1	1	1	1
-26.0	180019	143375	105908	73919	37793	11858	1	1	1	1	1	1	1	1	1
-27.0	367764	309540	248732	182015	122051	56980	14439	1	1	1	1	1	1	1	1
-28.0	339142	254065	244048	187322	134643	80993	35602	3235	1	1	1	1	1	1	1
-29.0	386136	343502	288769	227632	172794	113334	61935	17352	1	1	1	1	1	1	1
-30.0	453651	403661	353638	291286	224337	157397	96188	38463	1	1	1	1	1	1	1
-31.0	391440	353334	298588	250092	196568	140531	90288	45988	12190	1	1	1	1	1	1
-32.0	474031	426511	369603	314738	261134	193908	137470	77616	26124	1	1	1	1	1	1

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE: 500 KM

ELECTRONS: E > .25 MEV

INNER ZONE MODEL: AE5 (SOLAR MIN)

P

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 500.0		ENERGY= 0.250		ELECTRONS											
	-120.0	-118.0	-116.0	-114.0	-112.0	-110.0	-108.0	-106.0	-104.0	-102.0	-100.0	-98.0	-96.0	-94.0	-92.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	3	4
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	2	5	5
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	2	6	6
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	2	6	6
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-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
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ALTITUDE= 500.0 ENERGY= 0.250

ELECTRONS

	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-11.0	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
-12.0	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
-13.0	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
-14.0	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
-15.0	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
-16.0	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
-17.0	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
-18.0	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
-19.0	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
-20.0	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
-21.0	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
-22.0	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
-23.0	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
-24.0	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
-25.0	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
-26.0	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
-27.0	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
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-30.0	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
-31.0	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
-32.0	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38

M-74

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 500.0 ENERGY= 0.250

ELECTRONS

	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0
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31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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ALTITUDE= 500.0		ENERGY= 0.250		ELECTRONS												
	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-18.0	-16.0	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0	
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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3.0	8	7	6	5	4	3	2	2	1	1	1	1	1	1	1	
2.0	12	10	8	7	6	5	4	3	2	1	1	1	1	1	1	
1.0	16	13	11	10	9	7	6	5	4	3	2	1	1	1	1	
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-3.0	60	59	55	47	41	33	26	20	14	11	9	8	7	6	5	
-4.0	90	90	82	71	59	48	38	27	16	13	10	9	8	7	6	
-5.0	139	128	116	100	86	70	52	33	20	16	13	10	9	8	7	
-6.0	217	193	177	148	125	96	68	40	20	16	13	10	9	8	7	
-7.0	309	280	263	218	175	128	79	45	20	16	13	10	9	8	7	
-8.0	454	421	368	311	239	165	98	46	22	17	13	10	9	8	7	
-9.0	690	602	535	431	314	195	106	47	19	17	13	10	9	8	7	
-10.0	1001	889	715	544	394	219	129	76	44	44	34	26	19	15	11	
-11.0	1415	1215	987	692	492	333	241	158	84	84	64	48	36	28	21	
-12.0	1993	1722	1299	944	749	537	423	279	176	176	136	105	81	63	49	
-13.0	2693	2153	1674	1420	1182	996	781	548	355	355	268	208	158	128	101	
-14.0	3312	2766	2514	2221	1986	1661	1358	1061	750	750	576	476	376	304	248	
-15.0	4542	4140	3679	3478	3335	2801	2497	2068	1584	1584	1134	924	724	584	476	
-16.0	6409	6054	6155	6027	5276	4931	4305	3788	3144	3144	2432	2032	1632	1332	1032	
-17.0	9403	9538	9477	8754	8586	8429	8374	7658	6110	6110	5241	4486	3734	3082	2532	
-18.0	14803	14122	13644	14176	15539	16213	14178	12635	12099	12099	11099	9373	7792	6532	5532	
-19.0	19921	20239	22104	23793	26075	23184	22721	23811	24242	24242	22010	18670	17792	16254	14578	
-20.0	28142	30802	36953	37433	36461	37016	41664	42031	38799	38799	38131	40052	40232	36080	29117	
-21.0	43061	51342	51102	51788	57210	66189	66041	65941	68822	68822	77086	75640	64399	59472	56206	
-22.0	70684	69728	70520	81277	96980	91695	96410	107544	130760	130760	110144	99899	102538	103935	91007	
-23.0	87427	92355	105273	129066	122617	132160	157894	164309	151252	147286	158387	148558	124441	115950	75955	
-24.0	114261	135469	158158	159718	177063	215139	205582	195870	206292	217920	183706	169345	167948	154712	111377	
-25.0	166379	194092	195131	222238	282618	249800	243423	266885	254864	221784	221344	217558	162395	123712	100544	
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-27.0	275198	319109	372288	337567	349641	380427	327647	310531	320195	245219	192259	161911	176227	185446	180211	
-28.0	366577	411935	381367	400549	414978	362832	356110	333526	260296	211307	184605	161911	224739	186942	163424	
-29.0	450774	420068	447233	449331	399063	398118	351304	279292	229729	210284	203774	197485	197485	175944	163115	
-30.0	465453	456537	480469	433762	439858	368773	295136	248579	234098	240239	233732	207715	189966	184170	191868	
-31.0	533138	504818	463800	478360	385841	311895	269448	257685	272531	242751	204534	205649	217482	175862	148820	
-32.0	524438	485667	496877	397517	327923	284569	278577	296354	252473	219378	204534	205649	217482	175862	148820	

ORIGINAL PAGE IS
OF POOR QUALITY

	ALTITUDE= 500.0				ENERGY= 0.250				ELECTRONS									
	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0			
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
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30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
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22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
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19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
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11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
-17.0	153	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
-18.0	1596	576	62	1	1	1	1	1	1	1	1	1	1	1	1			
-19.0	7112	4668	2101	724	1	1	1	1	1	1	1	1	1	1	1			
-20.0	19376	15924	11473	5972	2586	841	1	1	1	1	1	1	1	1	1			
-21.0	46014	34330	25521	19079	14920	10703	6576	2880	1	1	1	1	1	1	1			
-22.0	65035	60253	54387	48052	29892	18694	12895	9612	6570	4234	3128	1780	699	1	1			
-23.0	107951	75103	53168	39729	29989	24489	21391	18407	14662	12497	10783	8673	6655	4886	3168			
-24.0	84861	66152	54995	48607	43957	40431	38498	35047	32985	29202	27825	23013	19818	16407	12732			
-25.0	86205	79901	74433	76388	73296	73204	62413	51798	43845	37932	33236	29007	25717	22440	18872			
-26.0	111655	113433	116348	94143	79341	69094	61093	54862	50811	47581	42814	39521	37033	32967	29433			
-27.0	143486	119813	102693	91613	84770	78853	75411	74968	73436	71683	69355	67390	63777	60302	55014			
-28.0	130325	118179	110582	106983	108205	110811	108623	93196	83439	74091	66408	60713	55429	50365	45406			
-29.0	137318	136763	140280	137289	115778	100132	88739	78533	72375	67363	63727	59596	55978	51374	47443			
-30.0	170292	153932	130759	112669	99548	90652	85848	82672	80396	77572	74439	68005	61865	55814	50504			
-31.0	150451	127958	115043	105158	101506	101934	90911	79597	71587	63889	58585	54634	50153	46129	41893			
-32.0	132149	120482	116418	112064	94243	82544	73427	67149	63156	58943	55626	53027	50767	48239	45748			

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ALTITUDE= 500.0		ENERGY= 0.250		ELECTRONS												
	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-23.0	1483	706	1	1	1	1	1	1	1	1	1	1	1	1	1	
-24.0	8802	5440	2442	1	1	1	1	1	1	1	1	1	1	1	1	
-25.0	15193	11858	7922	4020	466	1	1	1	1	1	1	1	1	1	1	
-26.0	25579	20634	15428	10906	5714	1845	1	1	1	1	1	1	1	1	1	
-27.0	40944	39686	32131	23530	16022	7469	1990	1	1	1	1	1	1	1	1	
-28.0	40420	34955	29286	22738	16421	10034	4553	436	1	1	1	1	1	1	1	
-29.0	42986	38369	31609	25304	19576	12744	7027	2038	1	1	1	1	1	1	1	
-30.0	45852	41005	35448	28941	22639	15738	9532	3915	1	1	1	1	1	1	1	
-31.0	38000	33609	28918	23923	18759	13838	8766	4524	1207	1	1	1	1	1	1	
-32.0	41453	36705	32191	27788	22027	16742	11443	6406	2117	1	1	1	1	1	1	

ALTITUDE: 500 KM

ELECTRONS: $E > .50$ MEV

INNER ZONE MODEL: AE5 (SOLAR MIN)

Q

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 500.0 ENERGY= 0.500

ELECTRONS

	-120.0	-118.0	-116.0	-114.0	-112.0	-110.0	-108.0	-106.0	-104.0	-102.0	-100.0	-98.0	-96.0	-94.0	-92.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

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ALTITUDE= 500.0		ENERGY= 0.500		ELECTRONS											
	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	2	2	3	4	6	8	11	15	22	30	40
-8.0	1	1	2	2	3	4	6	8	10	15	20	27	36	51	66
-9.0	1	2	3	4	5	7	9	12	17	23	32	41	58	74	96
-10.0	2	3	4	5	7	9	12	17	23	32	43	59	77	101	132
-11.0	3	4	5	6	7	10	14	20	28	40	53	76	100	135	176
-12.0	3	4	5	6	7	11	16	23	32	46	66	91	120	160	207
-13.0	4	5	6	7	9	13	18	25	37	51	73	101	134	179	230
-14.0	4	6	7	9	11	15	21	30	42	59	82	114	152	203	260
-15.0	5	7	9	11	13	18	25	34	49	69	97	130	182	243	310
-16.0	5	8	10	12	16	22	30	42	57	82	116	157	210	281	374
-17.0	5	8	11	14	17	26	38	51	71	98	140	190	256	343	455
-18.0	5	8	12	16	19	28	42	63	88	123	170	232	330	442	586
-19.0	4	7	11	15	19	29	44	69	105	153	219	301	408	547	727
-20.0	3	6	10	14	18	27	47	75	109	170	245	361	517	711	988
-21.0	3	4	9	13	17	26	47	77	119	182	266	395	567	783	1092
-22.0	1	2	6	9	13	20	45	74	118	189	290	421	612	893	1177
-23.0	1	1	3	5	7	14	39	69	119	188	294	436	642	943	1307
-24.0	1	1	1	1	1	1	31	57	101	172	284	435	654	970	1340
-25.0	1	1	1	1	1	1	20	44	86	148	258	411	639	913	1285
-26.0	1	1	1	1	1	1	10	27	59	120	236	403	610	946	1368
-27.0	1	1	1	1	1	1	9	27	62	127	237	411	674	1056	1506
-28.0	1	1	1	1	1	1	10	30	66	140	266	470	776	1166	1778
-29.0	1	1	1	1	1	1	8	29	77	157	311	526	896	1453	2228
-30.0	1	1	1	1	1	1	7	28	77	170	354	621	1075	1735	2625
-31.0	1	1	1	1	1	1	5	25	79	190	418	753	1326	2147	3288
-32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

ORIGINAL PAGE IS
OF POOR QUALITY

M-80

ALTITUDE= 500.C				ENERGY= 0.500				ELECTRONS											
	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0				
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	5	10	17	25	33	43	47	52	54	56	50	45	42	40	39	39	39	39	39
-5.0	15	23	33	45	53	62	68	73	77	69	62	59	57	55	53	53	53	53	53
-6.0	32	43	55	70	81	90	96	101	91	87	79	76	74	76	76	76	76	76	76
-7.0	54	71	84	101	112	122	134	120	115	105	102	100	103	102	103	103	103	103	103
-8.0	82	102	119	137	153	169	159	152	140	137	134	139	139	139	146	146	146	146	146
-9.0	120	140	167	186	207	222	192	186	182	181	189	189	189	189	196	196	196	196	196
-10.0	164	195	224	244	264	284	236	232	231	243	258	262	269	269	244	244	244	244	244
-11.0	214	255	265	276	284	286	295	309	312	333	358	371	336	310	285	285	285	285	285
-12.0	262	292	312	332	349	358	376	400	430	465	506	466	438	393	321	321	321	321	321
-13.0	295	340	373	406	435	455	486	525	573	631	642	586	559	465	384	384	384	384	384
-14.0	338	401	452	504	551	588	670	736	819	875	816	751	675	565	444	444	444	444	444
-15.0	410	479	555	634	709	772	895	1004	1116	1064	999	921	787	677	573	573	573	573	573
-16.0	480	579	693	808	924	1077	1219	1397	1361	1368	1235	1083	954	820	773	773	773	773	773
-17.0	596	742	868	1043	1220	1460	1707	1701	1677	1614	1456	1249	1155	1115	1114	1114	1114	1114	1114
-18.0	748	917	1158	1367	1638	2023	2063	2090	2065	1886	1669	1582	1480	1505	1643	1643	1643	1643	1643
-19.0	992	1257	1498	1881	2194	2410	2506	2424	2244	2044	2001	2028	2110	2221	2510	2510	2510	2510	2510
-20.0	1274	1661	2103	2390	2553	2869	2819	2675	2535	2455	2561	2717	2933	3304	3441	3441	3441	3441	3441
-21.0	1623	2000	2450	2682	3110	3058	3040	3007	3038	3113	3396	3782	4270	4762	5458	5458	5458	5458	5458
-22.0	1860	2229	2744	3130	3133	3272	3395	3586	3808	4310	4723	5374	5793	7085	8239	8239	8239	8239	8239
-23.0	2002	2582	2954	3159	3307	3622	4010	4449	4953	5970	6487	7203	8543	10576	13949	13949	13949	13949	13949
-24.0	2171	2592	2940	3407	3797	4236	4914	5756	6829	7532	8636	10502	13262	16658	17579	17579	17579	17579	17579
-25.0	2167	2610	3123	3707	4369	5354	6590	7618	8719	10375	12440	16102	19901	21354	23905	23905	23905	23905	23905
-26.0	2232	2878	3666	4594	5699	7061	8269	9553	11855	14749	18852	23021	25247	28568	35694	35694	35694	35694	35694
-27.0	2540	3301	4421	5599	7407	8736	10276	12793	16603	21498	25590	27822	33376	42432	47504	47504	47504	47504	47504
-28.0	3104	4096	5598	7141	8943	10779	14156	18422	24365	28071	31655	37635	48594	54012	60202	60202	60202	60202	60202
-29.0	3752	5148	6795	8868	11414	14508	19997	26568	30149	34302	42198	53988	59710	67861	85308	85308	85308	85308	85308
-30.0	4444	6173	8364	11046	14970	21286	27700	30448	36447	45068	55742	63718	74089	91748	102175	102175	102175	102175	102175
-31.0	5539	7775	11099	15545	21286	26095	30768	37768	47413	61865	68909	80455	101887	107774	106561	106561	106561	106561	106561
-32.0	7392	10482	15147	21125	25271	30830	39252	50149	62532	71010	86338	109287	110331	111479	122662	122662	122662	122662	122662

ALTITUDE= 500.0		ENERGY= 0.500		ELECTRONS													
	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-18.0	-16.0	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0		
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
4.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
3.0	5	5	4	3	3	2	2	2	2	2	2	2	2	2	2	2	2
2.0	7	6	5	4	4	3	3	2	2	2	2	2	2	2	2	2	2
1.0	9	8	7	6	5	5	4	3	2	2	2	2	2	2	2	2	2
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-1.0	15	14	13	11	10	9	7	6	5	4	4	4	4	4	4	4	4
-2.0	20	18	18	16	13	11	9	8	7	6	5	5	5	5	5	5	5
-3.0	27	26	24	20	17	13	10	8	7	6	5	5	5	5	5	5	5
-4.0	37	37	32	27	21	17	13	10	8	6	5	5	5	5	5	5	5
-5.0	52	46	40	33	27	23	20	14	12	10	8	8	8	8	8	8	8
-6.0	72	61	53	42	33	27	23	15	15	12	10	10	10	10	10	10	10
-7.0	91	78	67	52	38	27	23	15	15	12	10	10	10	10	10	10	10
-8.0	117	100	80	62	43	27	23	15	15	12	10	10	10	10	10	10	10
-9.0	151	122	95	71	46	26	23	14	12	10	8	8	8	8	8	8	8
-10.0	187	150	109	74	46	26	23	14	12	10	8	8	8	8	8	8	8
-11.0	224	171	122	75	54	38	29	19	16	13	10	10	10	10	10	10	10
-12.0	263	198	139	107	89	65	51	33	29	20	14	13	13	13	13	13	13
-13.0	293	236	194	171	144	121	94	65	42	28	13	13	13	13	13	13	13
-14.0	369	323	303	272	242	199	164	137	100	65	37	17	17	17	17	17	17
-15.0	535	502	451	423	395	355	337	291	229	165	106	50	50	50	50	50	50
-16.0	773	741	739	736	698	689	623	558	469	378	293	180	180	180	180	180	180
-17.0	1143	1143	1188	1177	1220	1242	1253	1178	999	891	741	542	542	542	542	542	542
-18.0	1763	1808	1872	2034	2295	2427	2274	2129	2101	1962	1655	1349	1124	1124	1124	1124	1124
-19.0	2575	2793	3221	3562	4004	3802	3900	4175	4261	4051	3623	3593	3328	3328	3328	3328	3328
-20.0	3933	4498	5535	5861	6075	6423	7368	7518	7437	7623	8177	8273	7515	7515	7515	7515	7515
-21.0	6287	7749	8117	8723	9995	11715	12212	12873	14023	15853	15732	13813	12808	12808	12269	11663	11663
-22.0	10686	11224	11959	14232	17273	17235	19236	22036	26830	23416	21498	22267	22341	22341	19485	16417	16417
-23.0	14158	15703	18539	23154	23533	26581	32393	34467	32412	31686	34255	31897	26680	26680	25098	23477	23477
-24.0	19567	23908	28677	30980	35741	44590	43528	42102	44713	46749	39533	36027	35736	35736	31896	23287	23287
-25.0	29402	35558	38025	44858	58650	53140	52366	57935	54642	47638	48676	45578	33228	33228	25083	20082	20082
-26.0	42196	46174	54553	68608	62449	64003	73452	62316	56652	57745	47784	35876	28188	28188	24010	22143	22143
-27.0	53927	65427	77034	72153	75525	82024	70256	66118	66003	50393	38564	31861	28622	28622	27880	28009	28009
-28.0	75304	86322	81604	86978	89389	77929	75466	68396	52857	41962	35809	33333	34292	34292	31549	25693	25693
-29.0	94679	89938	97078	96689	85770	84022	71659	56305	45231	40287	38805	40606	32029	32029	26471	22964	22964
-30.0	99703	107737	103288	93099	92484	74887	59237	48566	44409	43997	40834	33140	27844	27844	25024	23964	23964
-31.0	115648	108439	99427	100244	78212	62412	52255	48520	49258	41393	34273	29480	27559	27559	24342	24342	24342
-32.0	112587	104025	103827	80531	65360	54913	52179	52963	42276	35650	31204	30188	29820	29820	23021	18191	18191

	ALTITUDE= 500.0		ENERGY= 0.500		ELECTRONS												
	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0		
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
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-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-17.0	28	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-18.0	319	112	11	1	1	1	1	1	1	1	1	1	1	1	1		
-19.0	1506	996	446	148	1	1	1	1	1	1	1	1	1	1	1		
-20.0	4221	3415	2438	1262	560	184	1	1	1	1	1	1	1	1	1		
-21.0	9783	7491	5633	4184	3189	2243	1373	620	1	1	1	1	1	1	1		
-22.0	14078	12735	11559	9862	6221	3973	2776	2135	1486	969	719	416	166	1	1		
-23.0	22481	15591	11073	8234	6330	5081	4493	3819	3067	2634	2218	1817	1365	1036	670		
-24.0	17142	13554	11107	9855	8607	7927	7530	6589	6198	5526	5022	4201	3660	2953	2330		
-25.0	17297	15358	14421	14125	13374	13209	13818	9031	7432	6493	5710	4896	4356	3850	3261		
-26.0	20903	20936	20304	16327	13319	11488	9918	8936	8148	7453	6741	6249	5863	5238	4606		
-27.0	25444	20221	16860	14771	13213	12233	11538	10981	10668	10353	9982	9661	8894	8251	7585		
-28.0	21320	18733	16842	15989	15913	15599	14792	12566	10797	9411	8431	7640	6848	6201	5586		
-29.0	21079	19949	20029	18850	15154	12746	10778	9477	8519	7727	7170	6664	6234	5753	5322		
-30.0	23917	20581	15674	13916	11679	10459	9575	8816	8449	8079	7689	6796	6055	5495	5007		
-31.0	19134	15705	13191	11799	10990	10398	9132	7843	6722	5986	5445	4903	4438	4095	3743		
-32.0	15315	13317	12475	11227	9198	7732	6689	6020	5394	4964	4656	4405	4149	3845	3565		

ALTITUDE= 500.0 ENERGY= 0.500

ELECTRONS

	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-23.0	324	68	1	1	1	1	1	1	1	1	1	1	1	1	1
-24.0	1630	1021	454	1	1	1	1	1	1	1	1	1	1	1	1
-25.0	2645	2051	1405	743	91	1	1	1	1	1	1	1	1	1	1
-26.0	3995	3291	2524	1781	957	324	1	1	1	1	1	1	1	1	1
-27.0	6582	5664	4496	3369	2272	1084	299	1	1	1	1	1	1	1	1
-28.0	5018	4316	3662	2901	2084	1314	599	62	1	1	1	1	1	1	1
-29.0	4755	4183	3525	2899	2191	1491	632	239	1	1	1	1	1	1	1
-30.0	4559	3988	3425	2861	2217	1569	954	385	1	1	1	1	1	1	1
-31.0	3387	2984	2530	2117	1699	1227	799	417	116	1	1	1	1	1	1
-32.0	3256	2518	2559	2139	1735	1306	908	511	171	1	1	1	1	1	1

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE: 500 KM

ELECTRONS: $E > 1.0$ MEV

INNER ZONE MODEL: AE5 (SOLAR MIN)

R

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 500.0		ENERGY= 1.000		ELECTRONS											
	-120.0	-118.0	-116.0	-114.0	-112.0	-110.0	-108.0	-106.0	-104.0	-102.0	-100.0	-98.0	-96.0	-94.0	-92.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

ALTITUDE= 500.C ENERGY= 1.000

ELECTRONS

	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

ORIGINAL PAGE IS
OF POOR QUALITY

	ALTITUDE= 500.0 ENERGY= 1.000										ELECTRONS					
	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0	
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-1.0	1	1	1	1	1	1	2	3	5	6	7	8	9	10	11	12
-2.0	1	1	1	1	1	2	4	6	9	11	13	14	15	16	17	18
-3.0	1	1	1	1	3	5	7	9	11	13	15	16	17	18	19	20
-4.0	1	1	1	1	4	6	9	11	14	16	18	19	20	21	22	23
-5.0	2	3	5	8	10	13	16	19	22	26	29	30	31	32	33	34
-6.0	5	7	9	13	17	20	24	27	31	36	39	40	41	42	43	44
-7.0	9	12	15	20	24	28	33	37	42	46	50	51	52	53	54	55
-8.0	15	19	23	28	33	39	46	51	56	60	64	65	66	67	68	69
-9.0	23	27	34	39	46	54	63	70	77	83	88	89	90	91	92	93
-10.0	33	39	46	52	59	67	77	86	96	103	109	110	111	112	113	114
-11.0	44	53	56	61	69	78	89	99	108	116	122	123	124	125	126	127
-12.0	55	61	65	69	72	77	80	83	85	87	89	90	91	92	93	94
-13.0	62	70	76	81	86	89	92	96	100	103	106	108	109	110	111	112
-14.0	70	80	88	96	102	106	115	120	125	129	134	136	137	138	139	140
-15.0	82	92	103	113	122	127	139	146	152	157	162	164	165	166	167	168
-16.0	92	106	120	133	145	158	168	176	182	187	192	194	195	196	197	198
-17.0	108	126	140	158	173	192	205	216	224	230	236	238	239	240	241	242
-18.0	125	144	163	186	207	231	251	268	282	292	300	304	305	306	307	308
-19.0	150	176	197	226	241	268	291	310	324	334	340	342	343	344	345	346
-20.0	174	207	240	269	283	310	333	352	366	376	382	384	385	386	387	388
-21.0	195	219	242	271	285	312	335	354	368	378	384	386	387	388	389	390
-22.0	194	212	233	241	252	277	304	323	342	352	358	360	361	362	363	364
-23.0	179	205	234	260	286	330	362	381	400	410	416	418	419	420	421	422
-24.0	168	210	248	303	352	409	493	592	712	811	957	1181	1492	1872	2234	2605
-25.0	182	228	284	350	429	541	681	799	944	1155	1397	1808	2271	2745	3405	4057
-26.0	202	270	356	459	582	733	877	1040	1323	1656	2114	2667	3289	4081	5457	7971
-27.0	245	327	448	577	722	936	1126	1432	1864	2464	3008	3660	4789	6526	9157	12155
-28.0	316	422	582	754	968	1189	1585	2068	2722	3362	4230	5438	7536	9157	11215	14159
-29.0	390	539	730	971	1275	1627	2244	2956	3693	4650	6165	8415	10225	12736	17159	21713
-30.0	477	676	928	1237	1682	2365	3160	3813	5028	6655	9377	11021	14012	18518	23510	29510
-31.0	618	875	1254	1748	2376	3082	3975	5289	7098	9817	12113	15368	20706	22991	23510	27753
-32.0	835	1182	1696	2410	3130	4145	5607	7648	10167	12681	16677	22360	23636	24652	27753	

ALTITUDE= 500.0		ENERGY= 1.000		ELECTRONS												
	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-18.0	-16.0	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0	
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
4.0	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	
3.0	3	3	3	3	3	3	1	1	1	1	1	1	1	1	1	
2.0	4	4	4	4	4	4	2	2	2	2	2	2	2	2	2	
1.0	5	5	5	5	5	5	3	3	3	3	3	3	3	3	3	
0.0	6	6	6	6	6	6	4	4	4	4	4	4	4	4	4	
-1.0	7	7	7	7	7	7	5	5	5	5	5	5	5	5	5	
-2.0	9	9	9	9	9	9	6	6	6	6	6	6	6	6	6	
-3.0	11	10	8	8	8	8	7	7	7	7	7	7	7	7	7	
-4.0	13	13	11	11	11	11	8	8	8	8	8	8	8	8	8	
-5.0	17	14	12	12	12	12	9	9	9	9	9	9	9	9	9	
-6.0	20	16	13	13	13	13	10	10	10	10	10	10	10	10	10	
-7.0	22	18	14	14	14	14	10	10	10	10	10	10	10	10	10	
-8.0	24	19	14	14	14	14	10	10	10	10	10	10	10	10	10	
-9.0	26	19	14	14	14	14	10	10	10	10	10	10	10	10	10	
-10.0	27	19	12	12	12	12	10	10	10	10	10	10	10	10	10	
-11.0	27	18	11	11	11	11	10	10	10	10	10	10	10	10	10	
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-13.0	23	19	17	16	14	12	8	6	5	3	2	1	1	1	1	
-14.0	31	30	30	27	25	20	17	14	10	7	3	1	1	1	1	
-15.0	50	50	46	43	41	38	37	32	25	16	11	5	2	1	1	
-16.0	77	76	77	78	77	77	70	62	52	44	36	23	13	5	1	
-17.0	118	119	128	132	138	140	141	136	127	122	105	80	52	28	15	
-18.0	183	197	210	232	259	270	280	288	302	293	258	225	201	167	112	
-19.0	282	315	304	402	459	491	551	623	660	676	654	691	664	605	486	
-20.0	443	510	621	700	806	924	1129	1203	1327	1454	1626	1700	1592	1390	1174	
-21.0	711	867	987	1185	1477	1815	2073	2367	2762	3240	3326	3059	2888	2793	2657	
-22.0	1191	1401	1657	2116	2710	3588	4647	5559	6572	7158	7792	7186	5953	5511	5047	
-23.0	1789	2183	2787	3697	4176	5138	6572	8382	10133	10566	8809	7896	6749	6640	4744	
-24.0	2742	3628	4658	5636	6960	9168	11537	13147	12239	10495	10027	9529	8071	6640	4992	
-25.0	4474	5875	6923	8818	12139	15537	17732	13147	12239	10495	10027	9529	8071	6640	4992	
-26.0	7028	8499	10821	14304	18643	24390	31653	38850	44211	48078	50794	5136	5482	5928	6401	
-27.0	9999	13075	16337	19835	25953	34330	44211	55110	67275	80711	95294	10994	12555	14222	15999	
-28.0	15684	18198	21967	26602	33306	42310	53611	67275	80711	95294	10994	12555	14222	15999	17888	
-29.0	20040	19760	21908	21668	18756	17851	14636	11065	8600	6702	5071	3804	2855	2028	1447	
-30.0	21945	24340	23077	20273	19531	15175	11543	9139	8071	6904	5270	4251	3222	2446	1777	
-31.0	26148	24173	21578	21072	15741	12078	9741	8720	8485	6768	5346	4404	3954	3755	3222	
-32.0	25041	22519	21731	16136	12582	10172	9295	9008	6807	5469	4577	4236	3996	2978	2280	

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE=	500.0				ENERGY= 1.000				ELECTRONS															
	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0									
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
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26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
-5.0	1	1	1																					

	ALTITUDE= 500.0		ENERGY= 1.000		ELECTRONS													
	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0			
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	68	14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-24.0	293	186	84	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-25.0	448	350	244	131	16	1	1	1	1	1	1	1	1	1	1	1	1	1
-26.0	619	516	400	286	157	55	1	1	1	1	1	1	1	1	1	1	1	1
-27.0	902	781	624	472	322	156	44	1	1	1	1	1	1	1	1	1	1	1
-28.0	647	563	481	382	281	180	84	9	1	1	1	1	1	1	1	1	1	1
-29.0	575	509	432	358	273	187	106	31	1	1	1	1	1	1	1	1	1	1
-30.0	497	436	375	314	245	175	107	44	1	1	1	1	1	1	1	1	1	1
-31.0	339	299	254	214	173	127	83	43	12	1	1	1	1	1	1	1	1	1
-32.0	294	263	231	193	156	118	82	46	15	1	1	1	1	1	1	1	1	1

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE: 500 KM

ELECTRONS: $E > 1.5$ MEV

INNER ZONE MODEL: AE5 (SOLAR MIN)

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ORIGINAL PAGE 1
OF POOR QUALITY

ALTITUDE= 500.0		ENERGY= 1.500		ELECTRONS											
	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

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ALTITUDE= 500.0		ENERGY= 1.500		ELECTRONS											
	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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0.0	1	1	1	1	1	1	1	1	1	2	3	2	3	3	3
-1.0	1	1	1	1	1	1	1	1	2	3	4	5	5	5	5
-2.0	1	1	1	1	1	1	1	3	4	5	6	7	8	8	7
-3.0	1	1	1	1	1	2	3	5	6	7	8	9	9	9	8
-4.0	1	1	1	1	2	4	5	7	8	10	9	11	13	12	12
-5.0	1	1	2	3	4	6	8	10	12	14	11	13	15	14	13
-6.0	1	2	4	5	7	9	11	14	16	19	13	16	18	17	14
-7.0	3	5	6	9	11	13	16	16	16	19	16	18	21	18	14
-8.0	6	8	10	13	15	19	19	19	19	22	22	22	23	18	14
-9.0	10	12	15	18	21	22	22	22	22	26	26	25	25	18	14
-10.0	14	17	21	24	25	25	26	26	26	30	30	28	23	16	14
-11.0	20	24	25	27	28	29	30	31	30	36	36	29	23	17	12
-12.0	25	27	29	31	33	33	34	35	36	41	41	29	23	16	10
-13.0	28	31	34	36	38	39	40	40	41	48	45	28	21	14	9
-14.0	31	35	38	41	43	45	47	48	48	53	44	26	18	13	14
-15.0	36	40	44	47	50	51	54	55	53	60	42	23	17	20	20
-16.0	40	45	49	54	57	60	62	62	52	61	40	20	19	30	31
-17.0	45	51	55	60	64	68	70	61	50	47	39	40	40	40	46
-18.0	50	56	63	68	72	77	74	68	49	48	51	55	58	61	69
-19.0	57	65	70	77	79	74	64	59	61	63	69	75	81	92	107
-20.0	63	72	80	79	74	68	70	74	79	84	94	104	122	148	183
-21.0	66	72	75	72	69	66	76	84	103	119	129	155	182	237	286
-22.0	61	64	67	65	69	76	84	93	134	158	189	228	286	367	488
-23.0	52	57	64	72	79	91	105	121	137	163	189	228	286	367	488
-24.0	46	58	69	84	97	113	134	158	186	223	275	355	460	591	729
-25.0	50	63	79	97	118	146	181	210	262	334	421	559	720	898	1128
-26.0	56	75	98	125	156	193	235	292	385	502	655	849	1078	1359	1827
-27.0	68	90	122	154	202	255	320	420	588	769	961	1198	1595	2182	2733
-28.0	86	113	153	201	269	342	471	634	852	1080	1385	1813	2523	3554	5094
-29.0	103	141	199	275	371	489	693	929	1193	1527	2057	2816	3536	4526	6246
-30.0	130	190	269	368	513	736	1002	1238	1656	2223	3137	3825	4990	6745	8162
-31.0	178	258	378	537	743	986	1299	1753	2373	3293	4228	5490	7552	8677	9205
-32.0	254	364	529	764	1112	1362	1868	2559	3445	4451	5979	8166	8957	9578	11197

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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 500.0 ENERGY= 1.500

ELECTRONS

	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-18.0	-16.0	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
0.0	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5
-1.0	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6
-2.0	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7
-3.0	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8
-4.0	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9
-5.0	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10
-6.0	10	11	11	11	11	11	11	11	11	11	11	11	11	11	11
-7.0	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
-8.0	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
-9.0	11	10	10	10	10	10	10	10	10	10	10	10	10	10	10
-10.0	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9
-11.0	9	8	8	8	8	8	8	8	8	8	8	8	8	8	8
-12.0	8	7	7	7	7	7	7	7	7	7	7	7	7	7	7
-13.0	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5
-14.0	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
-15.0	14	14	12	11	10	10	10	9	2	1	1	1	1	1	1
-16.0	21	21	20	21	21	22	20	19	16	14	11	7	4	1	1
-17.0	32	31	35	37	41	42	43	43	41	39	34	26	17	9	1
-18.0	48	54	60	69	79	84	90	95	100	97	86	76	69	58	39
-19.0	79	92	110	124	146	161	182	208	220	230	231	246	241	220	178
-20.0	140	156	193	224	266	308	379	405	465	523	589	622	595	538	459
-21.0	217	271	319	362	495	608	710	843	995	1185	1241	1179	1148	1119	1075
-22.0	374	455	549	709	907	1040	1305	1611	2034	1938	1904	2026	2055	1815	1548
-23.0	580	726	930	1244	1466	1852	2399	2713	2792	2861	3150	2952	2489	2309	2125
-24.0	912	1216	1578	1977	2518	3347	3539	3697	4057	4294	3658	3317	3215	2767	1952
-25.0	1499	2004	2451	3195	4442	4429	4655	5307	5017	4381	4205	3980	2774	2026	1585
-26.0	2400	3018	3910	5269	5274	5711	6740	5707	5166	5124	4043	2895	2196	1814	1516
-27.0	3559	4750	6054	6153	6754	7526	6414	5976	5751	4149	3028	2403	2075	1928	1828
-28.0	5485	6781	6979	7835	8192	7093	6765	5851	4263	3216	2626	2332	2263	1951	1526
-29.0	7502	7688	8796	8850	7799	7475	6030	4457	3400	2880	2628	2573	1923	1517	1266
-30.0	8569	9793	9443	8445	8178	6223	4627	3592	3109	2899	2515	1930	1545	1330	1212
-31.0	10535	9905	8995	8826	6430	4821	3807	3338	3170	2492	1948	1591	1415	1322	1112
-32.0	10273	9392	9083	6574	5009	3962	3540	3346	2498	1985	1645	1503	1391	1013	759

	ALTITUDE= 500.0		ENERGY= 1.500		ELECTRONS											
	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-18.0	21	7	1	1	1	1	1	1	1	1	1	1	1	1	1	
-19.0	122	84	37	11	1	1	1	1	1	1	1	1	1	1	1	
-20.0	384	312	222	115	53	17	1	1	1	1	1	1	1	1	1	
-21.0	908	712	544	400	300	207	126	55	1	1	1	1	1	1	1	
-22.0	1321	1177	1045	867	549	360	256	194	141	95	69	41	17	1	1	
-23.0	1971	1334	941	702	546	432	377	315	256	216	182	150	112	87	57	
-24.0	1413	1105	841	779	661	593	546	469	432	378	338	281	245	198	157	
-25.0	1338	1149	1045	976	889	843	679	560	462	402	354	307	274	244	210	
-26.0	1458	1391	1281	1000	803	679	583	520	470	427	384	354	333	298	264	
-27.0	1580	1212	936	840	738	668	615	572	543	516	490	468	428	395	363	
-28.0	1221	1041	89	833	798	754	689	571	483	415	369	333	297	269	243	
-29.0	1116	1015	71	870	676	552	457	395	350	312	286	264	246	226	208	
-30.0	1147	956	727	585	478	417	371	333	311	291	270	231	202	180	163	
-31.0	830	554	529	456	410	373	310	249	203	174	152	134	120	109	98	
-32.0	610	510	458	386	292	226	185	158	136	121	110	101	93	85	78	

ORIGINAL PAGE IS
OF POOR QUALITY

M-94

	A_TITUDE= 500.0		ENERGY= 1.500		ELECTRONS										
	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	28	6	1	1	1	1	1	1	1	1	1	1	1	1	1
-24.0	112	71	32	1	1	1	1	1	1	1	1	1	1	1	1
-25.0	172	135	94	51	6	1	1	1	1	1	1	1	1	1	1
-26.0	230	193	150	108	60	21	1	1	1	1	1	1	1	1	1
-27.0	317	276	221	168	115	56	16	1	1	1	1	1	1	1	1
-28.0	219	191	164	131	97	62	29	3	1	1	1	1	1	1	1
-29.0	187	166	141	118	90	62	35	10	1	1	1	1	1	1	1
-30.0	147	129	111	93	73	52	32	13	1	1	1	1	1	1	1
-31.0	89	78	67	56	46	35	22	11	3	1	1	1	1	1	1
-32.0	70	62	54	45	37	28	19	11	3	1	1	1	1	1	1

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ALTITUDE: 500 KM

ELECTRONS: $E > 2.0$ MEV

INNER ZONE MODEL: AE5 (SOLAR MIN)

T

ORIGINAL PAGE IS
OF POOR QUALITY

A.TITUDE= 500.0		ENERGY= 2.000		ELECTRONS											
	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3
-11.0	1	1	1	1	2	3	3	3	3	3	3	3	3	3	4
-12.0	1	1	2	2	3	4	4	4	4	4	4	4	4	4	5
-13.0	1	2	2	2	3	4	4	4	4	4	4	4	4	4	6
-14.0	2	2	2	2	3	4	4	4	4	4	4	4	4	4	7
-15.0	2	2	2	2	3	4	4	4	4	4	4	4	4	4	8
-16.0	1	2	2	2	3	4	4	4	4	4	4	4	4	4	9
-17.0	1	1	2	2	3	4	4	4	4	4	4	4	4	4	10
-18.0	1	1	2	2	3	4	4	4	4	4	4	4	4	4	11
-19.0	1	1	2	2	3	4	4	4	4	4	4	4	4	4	12
-20.0	1	1	2	2	3	4	4	4	4	4	4	4	4	4	13
-21.0	1	1	1	1	2	3	3	3	3	3	3	3	3	3	14
-22.0	1	1	1	1	1	2	2	2	2	2	2	2	2	2	15
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	16
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	17
-25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	18
-26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19
-27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	20
-28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	21
-29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	22
-30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	23
-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	24
-32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	25

M-96

ALTITUDE= 500.0		ENERGY= 2.000		ELECTRONS											
	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3
-1.0	1	1	1	1	1	1	1	1	1	2	2	2	3	3	3
-2.0	1	1	1	1	1	1	1	1	2	3	4	5	5	5	4
-3.0	1	1	1	1	1	1	2	3	4	5	6	6	6	5	5
-4.0	1	1	1	1	1	2	3	4	6	7	7	7	7	6	6
-5.0	1	1	1	2	2	4	5	6	8	8	8	8	8	7	7
-6.0	1	1	2	3	4	6	7	9	9	9	9	9	9	9	8
-7.0	2	4	5	5	7	8	10	11	11	11	11	10	10	10	9
-8.0	3	7	6	8	10	12	12	13	12	12	12	12	11	11	9
-9.0	6	11	9	11	13	14	14	14	14	14	14	14	13	11	8
-10.0	9	15	13	15	15	16	16	16	16	16	16	15	14	11	8
-11.0	12	18	16	17	17	18	19	19	19	19	18	17	13	10	7
-12.0	15	17	18	19	20	21	21	22	22	21	21	16	13	9	6
-13.0	17	19	21	22	23	23	24	24	24	23	20	16	12	8	5
-14.0	19	22	23	25	26	26	27	27	27	25	19	14	10	6	4
-15.0	22	24	26	28	29	30	30	30	29	23	18	13	8	7	6
-16.0	24	27	29	31	32	33	34	33	27	21	16	10	10	9	9
-17.0	27	30	32	34	35	37	37	31	25	19	14	13	13	14	14
-18.0	29	32	35	37	39	40	34	28	22	19	18	18	18	19	20
-19.0	32	36	38	40	40	37	31	24	23	22	23	25	26	27	30
-20.0	34	38	41	40	36	32	27	28	28	29	31	34	36	40	46
-21.0	35	37	37	35	32	30	32	34	36	38	42	46	53	65	80
-22.0	31	31	31	30	32	35	39	43	47	53	56	67	80	104	124
-23.0	25	26	29	33	36	42	48	54	61	71	82	100	125	159	209
-24.0	21	26	32	39	45	51	60	70	80	97	120	155	199	253	320
-25.0	23	29	36	44	53	65	79	91	115	146	184	242	310	395	500
-26.0	26	34	45	56	69	84	102	128	168	219	283	367	474	605	813
-27.0	31	41	54	68	87	111	140	184	247	331	416	526	711	971	1216
-28.0	38	50	67	87	118	149	205	275	367	469	610	808	1124	1405	1766
-29.0	45	61	87	120	162	213	300	398	521	673	916	1254	1574	1999	2729
-30.0	57	83	118	161	223	318	431	542	732	991	1396	1702	2202	2943	3577
-31.0	78	113	165	233	319	428	570	776	1058	1465	1880	2419	3288	3802	4105
-32.0	111	158	228	329	441	601	831	1141	1534	1978	2630	3546	3932	4320	5041

ALTITUDE= 500.0		ENERGY= 2.000		ELECTRONS											
	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	53	37	16	5	1	1	1	1	1	1	1	1	1	1	1
-20.0	173	140	100	52	24	7	1	1	1	1	1	1	1	1	1
-21.0	413	332	253	190	143	97	59	26	1	1	1	1	1	1	1
-22.0	625	558	495	409	260	172	123	93	60	46	34	20	8	1	1
-23.0	929	825	741	630	558	203	177	146	119	100	84	69	52	40	1
-24.0	656	512	412	359	301	268	244	209	191	166	148	123	107	85	1
-25.0	609	519	468	431	388	363	288	235	192	166	146	126	113	90	1
-26.0	645	607	548	419	329	275	233	206	185	167	150	135	121	104	1
-27.0	669	600	537	433	388	257	234	215	202	190	180	171	156	144	1
-28.0	489	407	349	314	296	275	246	195	159	133	116	101	90	82	1
-29.0	426	375	355	305	224	173	138	115	99	87	78	71	66	60	1
-30.0	418	330	253	175	137	115	100	87	79	73	67	56	49	44	1
-31.0	264	194	149	122	107	94	76	60	48	40	35	30	27	24	1
-32.0	171	136	117	95	79	53	42	35	30	26	24	22	20	18	1

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 500.0 ENERGY= 2.000

ELECTRONS

	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-24.0	13	2	1	1	1	1	1	1	1	1	1	1	1	1	1
-25.0	49	31	14	1	1	1	1	1	1	1	1	1	1	1	1
-26.0	71	56	39	21	2	1	1	1	1	1	1	1	1	1	1
-27.0	90	76	59	43	24	8	1	1	1	1	1	1	1	1	1
-28.0	115	101	81	62	42	21	6	1	1	1	1	1	1	1	1
-29.0	66	57	50	40	30	20	9	1	1	1	1	1	1	1	1
-30.0	50	44	38	32	24	17	9	3	1	1	1	1	1	1	1
-31.0	35	31	27	22	17	13	8	3	1	1	1	1	1	1	1
-32.0	20	17	15	12	10	7	5	2	1	1	1	1	1	1	1
	15	13	11	9	7	6	4	2	1	1	1	1	1	1	1

M-100

ALTITUDE: 500 KM

ELECTRONS: $E > 3.0$ MEV

INNER ZONE MODEL: AE5 (SOLAR MIN)

u

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 500.0		ENERGY= 3.000		ELECTRONS											
	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
-14.0	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
-15.0	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
-16.0	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
-17.0	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
-18.0	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
-19.0	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
-20.0	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
-21.0	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
-22.0	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
-23.0	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
-24.0	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
-25.0	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
-26.0	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
-27.0	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
-28.0	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
-29.0	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
-30.0	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
-31.0	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
-32.0	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2

M-101

ALTITUDE= 500.C		ENERGY= 3.000		ELECTRONS											
	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 500.0		ENERGY= 3.000		ELECTRONS											
	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-18.0	-16.0	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-1.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-2.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-3.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-4.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-5.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-6.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-7.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2
-18.0	2	2	3	3	4	4	4	4	4	4	4	3	3	2	1
-19.0	4	5	6	6	7	8	9	10	10	10	9	9	9	7	6
-20.0	7	8	10	12	14	15	17	18	20	21	22	22	20	18	16
-21.0	12	14	17	20	24	27	31	35	38	42	43	41	40	38	35
-22.0	20	24	28	34	40	45	53	60	69	67	67	69	67	60	51
-23.0	31	37	44	55	62	73	86	93	98	98	104	96	83	75	67
-24.0	46	58	69	82	98	117	123	129	136	139	120	107	101	83	59
-25.0	70	84	101	121	152	154	160	176	163	144	133	120	82	60	47
-26.0	104	124	147	180	184	194	218	185	167	158	120	84	63	51	44
-27.0	144	177	207	213	228	243	207	189	174	121	86	67	56	49	43
-28.0	202	233	240	262	265	228	211	174	122	89	71	60	54	44	33
-29.0	258	264	234	286	250	231	177	126	93	76	65	59	41	31	25
-30.0	293	325	304	370	251	181	129	97	80	70	56	40	31	25	22
-31.0	347	319	296	269	186	133	101	84	74	54	40	31	26	22	17
-32.0	330	297	275	189	137	104	88	76	53	40	31	27	22	15	11

ALTITUDE= 500.0 ENERGY= 3.000

ELECTRONS

	0.0	2.0	4.0	6.0	8.0	10.0	2.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	13	10	7	3	1	1	1	1	1	1	1	1	1	1	1
-21.0	30	24	18	13	10	6	4	1	1	1	1	1	1	1	1
-22.0	44	38	33	26	17	12	9	7	5	3	2	1	1	1	1
-23.0	60	40	29	23	18	14	10	7	5	3	2	1	1	1	1
-24.0	43	33	27	23	19	17	14	10	7	5	3	2	1	1	1
-25.0	38	32	28	25	21	19	15	12	10	7	5	3	2	1	1
-26.0	37	34	29	22	18	15	13	11	10	7	5	3	2	1	1
-27.0	35	26	21	17	15	13	12	11	10	7	5	3	2	1	1
-28.0	25	21	18	15	14	13	11	10	7	5	3	2	1	1	1
-29.0	21	18	16	14	10	8	6	5	4	3	2	1	1	1	1
-30.0	19	15	11	8	6	5	4	3	2	1	1	1	1	1	1
-31.0	12	9	7	6	5	4	3	2	1	1	1	1	1	1	1
-32.0	8	6	5	4	3	2	1	1	1	1	1	1	1	1	1

ORIGINAL PAGE IS
OF POOR QUALITY

M-104

ALTITUDE= 500.0		ENERGY= 3.000		ELECTRONS												
	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-25.0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-26.0	4	3	2	1	1	1	1	1	1	1	1	1	1	1	1	
-27.0	5	4	3	2	2	1	1	1	1	1	1	1	1	1	1	
-28.0	3	2	2	2	2	1	1	1	1	1	1	1	1	1	1	
-29.0	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	
-30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

ALTITUDE: 500 KM

PROTONS: E > 1. MEV

TRAPPED PROTON MODEL: AP8 (SOLAR MIN)

V

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 500.C		ENERGY= 1.000		PROTONS											
	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	65
-9.0	1	1	1	1	1	1	1	1	5	15	23	39	10	27	155
-10.0	1	1	1	1	1	1	1	2	10	30	54	77	118	166	215
-11.0	1	1	1	1	1	1	2	7	16	43	85	122	177	234	295
-12.0	1	1	1	1	1	2	5	14	29	62	132	190	242	318	395
-13.0	1	1	1	1	1	3	9	25	58	98	186	262	322	406	502
-14.0	1	1	1	1	2	6	14	40	85	148	245	339	407	497	612
-15.0	1	1	1	1	3	9	24	62	122	192	315	409	503	606	704
-16.0	1	1	1	2	5	14	40	94	155	255	390	475	580	706	835
-17.0	1	1	1	2	7	14	62	109	192	333	423	543	662	798	943
-18.0	1	1	1	3	9	23	68	134	236	356	455	589	725	891	1073
-19.0	1	1	1	3	12	33	86	170	269	379	498	639	796	1016	1207
-20.0	1	1	1	5	20	51	109	183	274	390	530	719	911	1094	1213
-21.0	1	1	1	9	28	56	109	184	285	435	619	836	973	1099	1224
-22.0	1	1	1	1	15	51	109	203	329	484	662	803	956	1099	1243
-23.0	1	1	1	1	1	17	79	194	331	469	625	782	928	1096	1286
-24.0	1	1	1	1	1	6	47	139	264	412	590	753	958	1168	1379
-25.0	1	1	1	1	1	14	56	137	256	419	607	818	1078	1331	1444
-26.0	1	1	1	1	1	27	84	183	320	530	756	961	1104	1222	1349
-27.0	1	1	1	1	14	51	132	253	388	531	686	860	993	1129	1244
-28.0	1	1	1	1	15	41	89	182	258	373	505	655	799	932	1062
-29.0	1	1	1	2	15	37	71	125	198	299	415	550	686	809	952
-30.0	1	1	1	2	15	37	71	114	178	262	368	477	614	785	943
-31.0	1	1	1	1	15	41	76	121	188	264	368	495	642	807	1018
-32.0	1	1	1	1	12	41	83	137	207	303	416	556	723	942	1203

ALTITUDE= 500.0		ENERGY= 1.000		PROTONS											
	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-2.0	1	1	1	1	1	1	1	13	22	17	15	14	14	13	9
-3.0	1	1	1	1	1	2	21	38	39	34	36	39	32	28	20
-4.0	1	1	1	1	5	32	59	71	68	68	73	74	62	62	51
-5.0	1	1	1	13	63	88	105	122	127	125	120	117	109	93	84
-6.0	2	6	31	91	117	138	160	195	197	200	188	179	162	152	130
-7.0	20	72	122	165	189	216	246	273	308	283	274	258	255	243	187
-8.0	112	170	232	237	271	303	340	370	382	390	389	356	319	276	227
-9.0	191	244	293	333	367	407	436	468	475	468	448	416	364	333	298
-10.0	274	328	396	438	483	523	547	580	580	550	524	495	474	438	417
-11.0	379	430	502	556	612	649	685	685	685	647	620	625	600	527	420
-12.0	469	542	631	698	753	782	808	823	785	811	811	778	642	542	456
-13.0	578	664	767	843	893	923	943	950	965	984	893	783	677	608	578
-14.0	716	796	912	986	1054	1080	1146	1154	1090	1027	912	843	790	782	845
-15.0	825	954	1034	1152	1225	1263	1238	1185	1141	1069	995	958	1026	961	801
-16.0	954	1089	1208	1333	1339	1318	1278	1371	1205	1158	1132	1236	1091	951	708
-17.0	1091	1268	1341	1372	1391	1366	1377	1331	1307	1316	1387	1225	1078	848	689
-18.0	1241	1350	1375	1423	1430	1433	1445	1460	1509	1494	1363	1210	1009	814	708
-19.0	1294	1358	1424	1468	1512	1547	1605	1690	1601	1480	1324	1157	971	861	804
-20.0	1302	1388	1462	1547	1626	1729	1789	1696	1597	1462	1325	1113	994	941	962
-21.0	1339	1443	1558	1676	1818	1834	1765	1687	1546	1456	1273	1141	1096	1121	1257
-22.0	1370	1632	1685	1850	1827	1797	1737	1631	1567	1387	1269	1244	1285	1458	1672
-23.0	1484	1683	1777	1807	1807	1745	1680	1651	1466	1388	1390	1458	1656	1927	2386
-24.0	1614	1687	1722	1763	1729	1711	1673	1580	1499	1552	1614	1809	2182	2591	2263
-25.0	1548	1600	1658	1676	1687	1665	1601	1577	1639	1742	2038	2442	2764	2483	2224
-26.0	1444	1521	1568	1650	1601	1584	1627	1754	1876	2181	2676	2919	2680	2408	2304
-27.0	1369	1401	1461	1514	1580	1654	1813	2006	2339	2923	3067	2828	2583	2480	2467
-28.0	1182	1291	1401	1498	1658	1839	2116	2495	3112	3154	2919	2712	2648	2668	2825
-29.0	1116	1256	1426	1615	1836	2211	2642	3295	3139	2970	2769	2830	2633	3033	3420
-30.0	1137	1313	1579	1844	2272	2840	3289	3093	2966	2866	2876	2997	3199	3655	3676
-31.0	1254	1521	1880	2376	2904	3091	2991	2927	2861	2937	3086	3357	3903	3782	3989
-32.0	1505	1910	2393	2849	2850	2824	2819	2835	2943	3125	3497	4063	3863	3410	2989

ORIGINAL PAGE
OF POOR QUALITY

M-107

ALTITUDE= 500.0		ENERGY= 1.000		PROTONS											
	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-18.0	-16.0	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0
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29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-4.0	43	27	17	13	8	5	1	1	1	1	1	1	1	1	1
-5.0	64	47	38	36	22	7	1	1	1	1	1	1	1	1	1
-6.0	119	92	69	47	17	1	1	1	1	1	1	1	1	1	1
-7.0	145	121	38	46	6	1	1	1	1	1	1	1	1	1	1
-8.0	198	164	99	31	14	9	5	2	1	1	1	1	1	1	1
-9.0	272	191	99	60	44	39	32	24	13	5	1	1	1	1	1
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-11.0	327	268	256	274	187	113	75	53	40	28	18	9	3	1	1
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-14.0	651	466	331	261	221	206	191	179	166	141	87	51	20	8	
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-17.0	576	524	521	546	573	534	570	637	478	376	288	224	161	115	75
-18.0	663	656	697	764	849	971	811	644	536	452	380	300	238	172	113
-19.0	797	864	984	1122	1209	970	314	711	654	571	492	417	330	240	175
-20.0	1045	1212	1442	1413	1167	1006	913	860	795	740	653	568	419	302	219
-21.0	1447	1744	1603	1361	1227	1125	1095	1094	1047	974	818	595	446	368	305
-22.0	2074	1811	1603	1447	1348	1356	1424	1382	1412	1019	772	625	546	479	411
-23.0	2048	1822	1637	1573	1610	1701	1830	1626	1211	954	829	742	692	640	558
-24.0	2025	1862	1819	1857	2010	2268	1845	1408	1166	1049	979	951	896	791	619
-25.0	2065	2061	2144	2291	2710	2076	1639	1393	1267	1233	1250	1174	944	769	638
-26.0	2292	2368	2628	2950	2298	1850	1603	1527	1489	1574	1330	1108	924	799	729
-27.0	2651	2887	3161	2533	2069	1842	1749	1766	1825	1509	1282	1110	997	915	892
-28.0	3166	3342	2757	2287	2063	1995	2042	1992	1663	1464	1280	1196	1133	1076	959
-29.0	3521	2995	2491	2272	2217	2343	2137	1844	1626	1471	1406	1348	1202	1113	1030
-30.0	3182	2697	2465	2430	2606	2319	2019	1819	1647	1601	1490	1371	1278	1198	1125
-31.0	2839	2613	2617	2796	2448	2179	1968	1851	1823	1643	1499	1425	1361	1297	1233
-32.0	2750	2755	2975	2582	2331	2120	2008	1986	1774	1659	1591	1521	1470	1383	1320

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ALTITUDE= 500.0 ENERGY= 1.000

PROTONS

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31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-23.0	493	364	277	224	185	151	131	109	92	75	61	53	42	34	25
-24.0	483	405	343	306	270	239	215	189	166	155	131	112	97	79	61
-25.0	547	497	463	442	401	367	315	270	241	214	186	162	145	122	104
-26.0	682	640	622	531	467	412	365	326	297	269	245	220	195	175	155
-27.0	824	749	656	580	529	479	437	408	372	351	331	293	263	238	218
-28.0	880	796	724	662	620	586	544	502	461	424	391	362	336	302	277
-29.0	950	888	829	785	726	680	637	594	554	529	491	463	427	393	358
-30.0	1060	995	941	884	835	807	761	725	688	655	632	613	587	552	517
-31.0	1160	1115	1063	1027	984	959	973	1035	1079	1086	1086	1075	1036	977	911
-32.0	1296	1246	1230	1247	1346	1460	1584	1688	1756	1805	1817	1828	1781	1687	1554

ORIGINAL PAGE IS
OF POOR QUALITY

A-TITUDE= 500.0		ENERGY= 1.000		PROTONS													
	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0		
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30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-22.0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-23.0	16	10	4	2	1	1	1	1	1	1	1	1	1	1	1	1	
-24.0	50	32	19	9	3	1	1	1	1	1	1	1	1	1	1	1	
-25.0	87	68	45	25	11	3	1	1	1	1	1	1	1	1	1	1	
-26.0	126	102	76	54	31	14	3	1	1	1	1	1	1	1	1	1	
-27.0	176	144	112	81	52	27	9	1	1	1	1	1	1	1	1	1	
-28.0	232	195	158	118	81	46	19	4	1	1	1	1	1	1	1	1	
-29.0	302	258	207	161	110	71	34	10	1	1	1	1	1	1	1	1	
-30.0	453	380	311	233	164	100	49	14	2	1	1	1	1	1	1	1	
-31.0	813	701	571	438	309	187	95	33	10	1	1	1	1	1	1	1	
-32.0	1403	1215	1019	768	553	333	157	57	10	1	1	1	1	1	1	1	

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ALTITUDE: 500 KM

PROTONS: E > 10. MEV

TRAPPED PROTON MODEL: AP8 (SOLAR MIN)

W

ORIGINAL PAGE IS
OF POOR QUALITY

A_TITUDE= 500.0 ENERGY= 10.000

PROTONS

	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	3	9	24	58
-10.0	1	1	1	1	1	1	1	1	4	12	20	33	55	92	138
-11.0	1	1	1	1	1	1	1	2	8	24	45	75	102	146	190
-12.0	1	1	1	1	1	1	1	4	12	34	70	103	152	203	256
-13.0	1	1	1	1	1	1	2	9	22	49	108	158	205	273	341
-14.0	1	1	1	1	1	1	5	16	44	76	151	218	271	347	433
-15.0	1	1	1	1	1	1	8	26	64	116	199	282	344	425	530
-16.0	1	1	1	1	2	7	14	43	92	151	257	342	427	521	611
-17.0	1	1	1	1	4	15	26	69	119	204	322	399	495	613	734
-18.0	1	1	1	1	6	23	45	82	151	272	352	461	571	699	837
-19.0	1	1	1	2	9	25	51	105	191	296	384	507	633	791	967
-20.0	1	1	1	4	16	41	68	139	224	321	428	558	706	917	1103
-21.0	1	1	1	7	23	47	90	154	233	336	464	640	822	999	1114
-22.0	1	1	1	1	12	43	93	159	248	383	554	758	889	1011	1133
-23.0	1	1	1	1	15	71	95	180	295	439	604	736	882	1022	1164
-24.0	1	1	1	1	1	1	13	177	304	433	580	729	870	1034	1222
-25.0	1	1	1	1	1	5	43	129	245	383	550	706	903	1106	1310
-26.0	1	1	1	1	1	13	51	127	239	391	565	765	1013	1253	1351
-27.0	1	1	1	1	4	24	75	168	296	497	707	896	1026	1130	1243
-28.0	1	1	1	1	11	43	116	228	353	488	629	787	920	1042	1144
-29.0	1	1	1	2	13	35	78	143	229	335	455	593	726	845	961
-30.0	1	1	1	1	12	33	64	111	177	267	369	487	610	719	845
-31.0	1	1	1	1	12	33	65	104	160	237	330	427	549	700	840
-32.0	1	1	1	1	9	36	69	111	173	240	335	451	578	725	914
						36	75	126	191	283	380	508	663	865	1106

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ALTITUDE= 500.0		ENERGY= 10.000		PROTONS												
	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0	
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-6.0	2	5	29	81	46	76	89	101	102	98	92	55	51	43	35	
-7.0	18	65	139	146	102	118	134	161	159	159	147	139	126	120	104	
-8.0	101	152	179	208	234	258	286	309	317	322	322	296	268	234	195	
-9.0	170	217	257	289	316	347	369	394	399	393	378	354	312	289	264	
-10.0	241	286	345	380	416	448	467	495	495	470	452	431	419	393	383	
-11.0	331	375	436	483	530	561	592	592	596	565	547	558	543	485	389	
-12.0	407	472	551	609	658	683	708	725	694	726	733	708	594	504	424	
-13.0	502	579	674	742	788	817	839	851	872	897	815	726	632	568	540	
-14.0	625	699	807	877	942	971	1040	1054	998	943	847	791	741	729	790	
-15.0	725	847	942	1039	1113	1155	1135	1090	1054	997	939	903	961	896	733	
-16.0	847	977	1094	1220	1228	1212	1179	1180	1127	1095	1070	1162	1013	882	644	
-17.0	981	1155	1229	1261	1284	1265	1284	1250	1241	1249	1305	1134	997	771	615	
-18.0	1133	1239	1266	1316	1329	1339	1362	1392	1439	1405	1258	1116	916	729	628	
-19.0	1188	1253	1320	1368	1418	1464	1536	1616	1504	1363	1218	1049	871	760	719	
-20.0	1202	1290	1367	1456	1546	1659	1707	1589	1467	1341	1199	1002	881	839	864	
-21.0	1248	1353	1474	1600	1747	1742	1648	1546	1415	1316	1147	1013	974	1003	1141	
-22.0	1293	1458	1616	1774	1725	1671	1589	1490	1419	1249	1127	1100	1147	1310	1538	
-23.0	1417	1611	1687	1693	1671	1595	1533	1491	1319	1233	1222	1300	1485	1775	2191	
-24.0	1531	1584	1600	1613	1579	1559	1507	1420	1331	1362	1436	1619	1989	2380	2106	
-25.0	1436	1469	1517	1529	1538	1498	1437	1399	1437	1549	1821	2204	2538	2280	2031	
-26.0	1326	1393	1433	1487	1441	1416	1440	1536	1667	1948	2401	2678	2436	2202	2056	
-27.0	1239	1266	1317	1360	1405	1458	1593	1783	2088	2617	2809	2561	2363	2236	2214	
-28.0	1066	1156	1247	1324	1464	1630	1883	2227	2788	2883	2641	2480	2381	2390	2562	
-29.0	988	1107	1252	1431	1633	1971	2361	2971	2664	2686	2548	2487	2532	2744	3046	
-30.0	1012	1170	1407	1646	2031	2541	3105	2815	2699	2611	2579	2678	2890	3253	3209	
-31.0	1124	1363	1685	2130	2645	2830	2714	2690	2597	2629	2756	3030	3470	3289	2757	
-32.0	1383	1758	2205	2617	2595	2570	2586	2562	2635	2792	3156	3610	3343	2808	2474	

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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 500.0		ENERGY= 10.000		PROTONS											
	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-18.0	-16.0	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	3	5	2	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	10	7	5	3	2	1	1	1	1	1	1	1	1	1	1
-4.0	30	20	12	10	6	4	1	1	1	1	1	1	1	1	1
-5.0	49	37	31	30	18	6	1	1	1	1	1	1	1	1	1
-6.0	97	76	58	39	14	1	1	1	1	1	1	1	1	1	1
-7.0	122	104	76	40	5	1	1	1	1	1	1	1	1	1	1
-8.0	174	147	89	28	12	7	4	1	1	1	1	1	1	1	1
-9.0	246	175	92	55	40	35	27	20	10	3	1	1	1	1	1
-10.0	281	177	137	113	108	97	59	33	22	12	5	7	2	1	1
-11.0	304	251	237	249	166	100	66	47	35	24	15	18	8	2	1
-12.0	389	422	383	235	153	109	88	70	57	46	32	40	18	7	1
-13.0	643	487	316	119	167	138	121	105	95	78	60	75	42	16	6
-14.0	597	420	295	235	201	189	176	166	154	127	105	122	71	35	18
-15.0	524	388	310	282	267	259	260	261	244	222	183	154	101	63	38
-16.0	492	406	363	367	368	392	411	402	387	317	223	201	144	103	66
-17.0	514	471	477	499	538	586	627	587	432	332	257	270	215	156	99
-18.0	594	597	638	711	793	907	740	587	483	401	338	373	296	219	154
-19.0	718	793	901	1062	1116	888	747	645	568	513	444	512	376	269	190
-20.0	961	1111	1353	1310	1072	929	824	771	705	660	593	524	398	329	266
-21.0	1330	1600	1493	1253	1722	1015	984	953	944	878	729	557	476	423	366
-22.0	1903	1693	1471	1309	1219	1220	1250	1229	1064	857	677	643	617	557	503
-23.0	1921	1660	1481	1434	1446	1523	1599	1435	1064	830	735	828	786	695	516
-24.0	1845	1685	1661	1665	1800	1951	1629	1226	1066	915	852	1027	790	626	532
-25.0	1868	1868	1923	2050	2363	1817	1409	1194	1058	1077	1062	894	739	655	622
-26.0	2061	2126	2348	2618	1988	1576	1367	1294	1304	1338	1116	873	802	771	754
-27.0	2400	2576	2796	2166	1749	1562	1478	1546	1537	1226	1002	945	941	859	711
-28.0	2822	2943	2335	1921	1741	1679	1760	1642	1321	1113	994	1098	891	767	678
-29.0	3087	2509	2041	1906	1859	1987	1734	1436	1212	1128	1092	949	827	754	705
-30.0	2645	2240	2056	2032	2181	1854	1547	1330	1247	1226	1142	881	828	785	736
-31.0	2353	2166	2182	2322	1940	1648	1424	1377	1380	1193	991	899	858	776	709
-32.0	2266	2294	2451	2028	1736	1519	1476	1473	1236	1049	946				

ALTITUDE= 500.0		ENERGY= 10.000		PROTONS											
	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	7	2	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	18	8	3	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	35	16	7	3	1	1	1	1	1	1	1	1	1	1	1
-18.0	60	28	13	6	3	2	1	1	1	1	1	1	1	1	1
-19.0	95	54	24	10	5	3	1	1	1	1	1	1	1	1	1
-20.0	146	106	34	20	11	6	3	2	1	1	1	1	1	1	1
-21.0	211	172	74	48	28	17	9	6	3	2	1	1	1	1	1
-22.0	312	254	121	87	57	35	20	13	7	4	3	2	1	1	1
-23.0	426	314	192	144	99	74	57	45	33	26	19	14	10	7	4
-24.0	410	350	242	196	162	135	117	97	82	68	55	48	38	30	22
-25.0	469	427	297	265	235	213	190	168	148	136	116	101	87	73	54
-26.0	582	551	402	376	349	326	268	228	199	175	154	136	122	103	82
-27.0	669	560	434	420	385	349	319	302	229	211	193	175	158	144	128
-28.0	610	549	435	463	430	412	387	350	281	265	245	229	209	193	175
-29.0	622	581	500	514	467	432	397	375	319	296	276	257	236	216	195
-30.0	672	622	530	520	485	466	449	426	353	336	311	296	278	254	231
-31.0	664	616	533	555	541	531	492	467	404	387	371	346	320	296	271
-32.0	675	645	635	619	567	542	528	512	498	490	479	472	453	419	386

ORIGINAL PAGE IS
OF POOR QUALITY

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A.TITUDE= 500.C		ENERGY= 10.000		PROTONS											
	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	14	9	4	2	1	1	1	1	1	1	1	1	1	1	1
-24.0	43	28	17	7	2	1	1	1	1	1	1	1	1	1	1
-25.0	76	59	40	23	9	2	1	1	1	1	1	1	1	1	1
-26.0	108	88	68	49	28	13	3	1	1	1	1	1	1	1	1
-27.0	148	124	100	73	47	25	8	1	1	1	1	1	1	1	1
-28.0	174	149	124	96	68	40	17	4	1	1	1	1	1	1	1
-29.0	205	180	150	119	87	58	30	8	1	1	1	1	1	1	1
-30.0	247	218	182	145	111	74	40	12	2	1	1	1	1	1	1
-31.0	291	256	216	178	136	95	53	22	4	1	1	1	1	1	1
-32.0	350	309	262	212	167	110	63	29	5	1	1	1	1	1	1

M-115

ALTITUDE: 500 KM

PROTONS: E > 25. MEV

TRAPPED PROTON MODEL: AP8 (SOLAR MIN)

X

ORIGINAL PAGE IS
OF POOR QUALITY

	ALITUDE= 500.0				ENERGY= 25.000				PROTONS											
	90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0					
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2					
-8.0	1	1	1	1	1	1	1	1	1	1	1	2	6	18	45					
-9.0	1	1	1	1	1	1	1	1	2	7	12	22	39	69	107					
-10.0	1	1	1	1	1	1	1	1	4	14	28	44	73	106	141					
-11.0	1	1	1	1	1	1	1	2	7	20	43	68	105	145	185					
-12.0	1	1	1	1	1	1	1	4	12	28	65	101	137	189	242					
-13.0	1	1	1	1	1	1	2	8	24	44	90	137	178	237	306					
-14.0	1	1	1	1	1	1	3	13	35	66	118	177	225	290	377					
-15.0	1	1	1	1	1	1	6	22	51	87	154	216	283	361	437					
-16.0	1	1	1	1	1	3	13	37	67	119	197	256	334	435	543					
-17.0	1	1	1	1	1	7	24	45	87	163	221	306	398	513	640					
-18.0	1	1	1	1	3	12	29	60	113	184	251	351	461	605	777					
-19.0	1	1	1	1	5	14	40	82	139	212	297	407	540	744	933					
-20.0	1	1	1	2	9	25	55	98	156	237	342	499	673	847	955					
-21.0	1	1	1	4	14	30	62	112	181	293	444	636	757	871	988					
-22.0	1	1	1	1	8	30	69	138	236	363	513	633	767	899	1037					
-23.0	1	1	1	1	1	12	56	148	260	373	507	642	774	932	1117					
-24.0	1	1	1	1	1	5	39	115	219	345	496	643	832	1050	1235					
-25.0	1	1	1	1	1	12	47	118	222	366	533	724	965	1201	1281					
-26.0	1	1	1	1	3	22	71	159	281	470	676	859	975	1065	1155					
-27.0	1	1	1	1	9	39	110	215	335	461	591	735	844	947	1029					
-28.0	1	1	1	1	11	32	71	132	211	306	415	539	654	755	850					
-29.0	1	1	1	1	11	29	57	101	161	242	332	433	539	632	737					
-30.0	1	1	1	1	10	30	58	94	146	211	296	382	486	613	730					
-31.0	1	1	1	1	11	32	62	100	155	219	300	397	509	638	802					
-32.0	1	1	1	1	8	32	68	115	172	252	341	459	589	757	957					

M-116

ALTITUDE= 500.0 ENERGY= 25.000

PROTONS

	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	15	51	22	60	33	52	58	62	60	56	51	48	44	38	35
-8.0	79	120	84	110	119	126	134	139	152	135	129	122	123	121	97
-9.0	130	165	136	153	165	174	186	195	195	197	198	184	171	156	135
-10.0	181	213	193	209	221	235	243	255	256	252	247	237	216	211	203
-11.0	243	273	254	271	291	308	315	334	334	320	316	312	321	315	324
-12.0	293	342	316	347	377	395	416	416	426	412	413	444	452	415	341
-13.0	360	422	402	444	478	497	519	541	527	575	605	603	513	446	389
-14.0	455	517	499	554	593	619	647	673	714	761	699	632	565	525	512
-15.0	536	647	612	676	739	774	857	892	852	815	743	712	684	697	752
-16.0	647	772	739	835	917	975	967	936	881	816	848	838	919	851	683
-17.0	782	959	894	1030	1044	1039	1019	1034	1003	995	998	1115	961	811	584
-18.0	949	1054	1041	1077	1107	1101	1132	1119	1135	1171	1247	1073	914	696	546
-19.0	1015	1081	1046	1140	1163	1187	1227	1278	1350	1334	1186	1020	823	645	552
-20.0	1041	1130	1150	1206	1266	1328	1418	1532	1419	1281	1111	940	769	663	632
-21.0	1101	1210	1211	1311	1412	1547	1614	1490	1371	1218	1068	881	765	730	758
-22.0	1166	1333	1337	1472	1643	1638	1537	1437	1282	1168	1003	877	840	879	989
-23.0	1315	1519	1504	1678	1617	1552	1468	1343	1253	1089	973	944	999	1136	1337
-24.0	1454	1488	1490	1493	1435	1387	1318	1227	1143	1062	1045	1122	1288	1520	1942
-25.0	1347	1371	1389	1375	1357	1304	1239	1198	1221	1160	1231	1405	1702	2083	1942
-26.0	1215	1256	1273	1303	1248	1219	1229	1302	1419	1577	1577	1887	2199	1954	1797
-27.0	1106	1117	1148	1176	1206	1241	1348	1518	1803	2055	2055	2303	2094	1903	1764
-28.0	935	1005	1075	1133	1235	1378	1608	1923	2379	2402	2402	2203	2029	1924	1779
-29.0	855	951	1070	1216	1393	1696	2033	2529	2455	2462	2268	2121	2047	2099	2275
-30.0	874	1009	1213	1425	1756	2177	2541	2431	2293	2297	2177	2135	2217	2437	2784
-31.0	983	1186	1457	1828	2251	2419	2354	2267	2229	2232	2212	2340	2561	2960	2809
-32.0	1190	1506	1888	2255	2266	2195	2195	2267	2267	2446	2799	3277	2899	2347	2072

ORIGINAL PAGE IS
OF POOR QUALITY

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ALTITUDE= 500.0		ENERGY= 25.000		PROTONS												
	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-18.0	-16.0	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0	
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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-4.0	16	11	7	5	3	2	1	1	1	1	1	1	1	1	1	
-5.0	28	21	18	18	11	3	1	1	1	1	1	1	1	1	1	
-6.0	58	46	37	25	9	1	1	1	1	1	1	1	1	1	1	
-7.0	80	72	54	29	4	1	1	1	1	1	1	1	1	1	1	
-8.0	127	114	71	24	11	7	3	1	1	1	1	1	1	1	1	
-9.0	201	149	82	51	37	32	25	18	8	3	1	1	1	1	1	
-10.0	245	160	127	106	102	92	54	29	19	10	5	1	1	1	1	
-11.0	277	234	225	237	155	91	61	43	32	22	13	6	2	1	1	
-12.0	365	404	363	218	140	99	80	63	51	41	29	16	7	1	1	
-13.0	611	458	290	200	150	126	110	95	85	71	54	35	16	6	1	
-14.0	559	384	267	211	182	170	160	149	137	114	96	67	38	14	5	
-15.0	477	349	279	251	242	231	233	237	215	200	166	110	65	32	16	
-16.0	438	363	322	330	327	353	364	365	343	280	197	139	94	59	35	
-17.0	455	419	422	451	475	526	568	521	390	301	233	184	133	95	60	
-18.0	526	523	573	626	709	802	667	533	436	360	309	249	198	144	90	
-19.0	630	700	806	927	993	799	670	580	513	464	407	349	271	201	140	
-20.0	834	996	1177	1165	951	824	748	691	635	602	546	477	344	245	174	
-21.0	1173	1411	1313	1098	995	927	887	858	851	807	676	473	355	291	246	
-22.0	1697	1467	1279	1164	1104	1102	1118	1105	1149	811	605	490	423	377	337	
-23.0	1641	1445	1314	1282	1312	1359	1436	1280	946	738	639	569	535	507	455	
-24.0	1605	1482	1475	1518	1617	1753	1425	1083	887	798	741	721	696	625	450	
-25.0	1629	1653	1751	1847	2099	1577	1236	1042	951	923	885	679	525	436	366	
-26.0	1820	1917	2125	2293	1716	1374	1183	1126	1105	1158	937	745	601	525	484	
-27.0	2139	2340	2461	1855	1516	1340	1284	1300	1309	1004	818	693	633	589	589	
-28.0	2572	2590	1936	1655	1482	1452	1493	1367	1062	895	774	736	710	642	505	
-29.0	2710	2122	1782	1617	1595	1703	1420	1133	964	863	840	815	632	519	453	
-30.0	2227	1503	1739	1731	1866	1492	1200	1050	943	935	806	641	542	483	448	
-31.0	1985	1832	1847	1986	1543	1261	1118	1032	1041	809	646	564	513	488	448	
-32.0	1916	1933	2081	1595	1318	1184	1099	1092	814	664	592	544	520	444	386	

ALTITUDE= 500.0 ENERGY= 25.000

PROTONS

	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	16	7	3	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	32	15	7	3	1	1	1	1	1	1	1	1	1	1	1
-18.0	55	26	12	6	3	1	1	1	1	1	1	1	1	1	1
-19.0	87	51	32	18	11	6	3	1	1	1	1	1	1	1	1
-20.0	134	98	69	45	26	16	9	5	3	2	1	1	1	1	1
-21.0	195	159	114	82	54	33	19	12	7	4	3	2	1	1	1
-22.0	288	235	180	136	91	69	53	42	31	25	18	13	9	6	4
-23.0	396	291	211	170	143	119	105	89	75	63	51	45	36	28	21
-24.0	347	291	251	223	204	184	166	151	133	122	106	94	80	66	53
-25.0	377	352	328	312	300	275	266	251	234	222	207	192	177	161	144
-26.0	465	442	416	337	279	243	212	189	174	160	148	135	123	113	101
-27.0	509	417	348	301	275	248	229	218	203	194	180	169	155	144	133
-28.0	430	373	339	315	294	283	265	254	241	227	216	208	199	184	174
-29.0	407	385	368	334	294	261	236	219	204	200	196	184	176	167	156
-30.0	434	383	333	298	269	254	244	227	216	210	206	192	185	172	163
-31.0	381	341	310	289	277	268	257	246	235	226	215	204	193	182	171
-32.0	352	326	315	296	263	242	227	215	206	200	192	184	174	163	153

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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 500.0		ENERGY= 25.000		PROTONS													
	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0		
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-22.0	12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-23.0	14	8	4	2	1	1	1	1	1	1	1	1	1	1	1	1	
-24.0	41	27	16	7	2	1	1	1	1	1	1	1	1	1	1	1	
-25.0	65	52	36	21	9	2	1	1	1	1	1	1	1	1	1	1	
-26.0	86	72	56	41	24	12	3	1	1	1	1	1	1	1	1	1	
-27.0	114	97	78	59	39	22	7	1	1	1	1	1	1	1	1	1	
-28.0	115	101	86	68	52	32	15	3	1	1	1	1	1	1	1	1	
-29.0	126	113	97	81	61	42	22	6	1	1	1	1	1	1	1	1	
-30.0	136	122	107	87	68	47	27	8	1	1	1	1	1	1	1	1	
-31.0	133	119	104	89	70	52	31	13	2	1	1	1	1	1	1	1	
-32.0	141	127	110	92	75	53	32	15	3	1	1	1	1	1	1	1	

M-120

ALTITUDE: 500 KM

PROTONS: E > 50. MEV

TRAPPED PROTON MODEL: AP8 (SOLAR MIN)

Y

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 500.0		ENERGY= 50.000		PROTONS											
	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
-10.0	1	1	1	1	1	1	1	1	1	4	6	13	24	47	76
-11.0	1	1	1	1	1	1	1	1	2	7	15	25	47	71	97
-12.0	1	1	1	1	1	1	1	1	3	10	23	39	66	94	123
-13.0	1	1	1	1	1	1	1	3	6	14	33	56	81	119	157
-14.0	1	1	1	1	1	1	1	5	12	22	46	75	103	146	197
-15.0	1	1	1	1	1	1	2	10	17	33	61	96	130	177	244
-16.0	1	1	1	1	1	1	5	18	25	44	79	119	167	225	286
-17.0	1	1	1	1	1	2	12	23	34	61	103	144	201	281	371
-18.0	1	1	1	1	1	6	14	30	44	83	120	180	251	346	458
-19.0	1	1	1	1	2	7	20	42	58	99	145	219	308	433	595
-20.0	1	1	1	1	5	12	29	55	75	124	186	273	387	576	765
-21.0	1	1	1	2	7	16	37	72	93	151	233	367	528	695	790
-22.0	1	1	1	1	4	18	45	99	122	210	339	515	623	723	827
-23.0	1	1	1	1	1	8	43	120	179	288	422	524	640	756	879
-24.0	1	1	1	1	1	4	34	99	214	310	423	539	655	794	959
-25.0	1	1	1	1	1	10	44	106	186	294	422	550	717	894	1079
-26.0	1	1	1	1	3	20	67	150	196	322	465	633	848	1057	1121
-27.0	1	1	1	1	8	37	103	204	258	422	604	764	861	934	1006
-28.0	1	1	1	1	10	29	65	120	315	424	539	657	742	827	893
-29.0	1	1	1	1	9	26	52	90	194	280	377	485	579	662	739
-30.0	1	1	1	1	8	26	50	82	143	213	293	382	471	548	634
-31.0	1	1	1	1	9	27	53	85	127	183	256	327	413	518	613
-32.0	1	1	1	1	6	25	57	97	134	188	255	336	429	534	656

M-121

ALTITUDE= 500.0		ENERGY= 50.000		PROTONS											
	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	12	39	61	78	78	77	76	74	78	69	66	62	63	63	53
-8.0	58	88	97	105	106	105	106	108	104	103	106	99	95	92	85
-9.0	94	117	134	138	140	143	142	146	144	142	143	142	135	142	146
-10.0	126	146	173	177	185	191	190	201	201	196	200	208	230	241	266
-11.0	165	183	211	228	244	252	266	266	279	276	290	335	363	342	286
-12.0	193	227	269	297	320	332	351	374	374	432	481	496	425	376	336
-13.0	236	283	341	383	414	438	468	504	559	624	577	528	478	453	453
-14.0	305	354	433	489	546	586	679	731	702	678	623	606	591	614	671
-15.0	366	463	546	639	728	798	796	775	764	743	723	725	809	756	616
-16.0	463	577	700	843	858	859	847	868	849	851	867	982	848	715	521
-17.0	592	768	854	889	920	919	954	951	974	1020	1096	941	801	616	480
-18.0	768	868	899	950	976	1004	1048	1102	1184	1169	1035	889	723	555	474
-19.0	837	898	961	1017	1075	1139	1227	1342	1239	1114	964	822	669	569	529
-20.0	866	948	1024	1119	1216	1344	1412	1297	1188	1053	929	762	654	611	630
-21.0	928	1028	1146	1273	1434	1430	1334	1242	1105	1011	861	747	702	725	800
-22.0	996	1148	1306	1469	1408	1343	1265	1153	1075	931	827	788	819	927	1077
-23.0	1139	1328	1390	1373	1334	1258	1177	1123	977	899	870	917	1049	1221	1536
-24.0	1274	1297	1292	1286	1232	1185	1129	1041	964	963	1004	1142	1364	1645	1426
-25.0	1172	1188	1197	1179	1157	1113	1048	1006	1012	1077	1271	1509	1736	1554	1381
-26.0	1052	1082	1091	1118	1062	1030	1028	1074	1152	1352	1640	1816	1666	1486	1415
-27.0	961	964	983	997	1015	1034	1106	1227	1444	1781	1892	1752	1583	1526	1539
-28.0	805	860	911	950	1023	1125	1294	1539	1890	1936	1802	1655	1618	1655	1769
-29.0	728	802	890	999	1131	1359	1630	2002	1929	1821	1697	1686	1748	1889	2185
-30.0	727	831	988	1150	1414	1736	2005	1907	1812	1738	1746	1844	1986	2314	2253
-31.0	809	969	1180	1466	1787	1904	1856	1782	1735	1784	1697	2080	2455	2299	1967
-32.0	965	1210	1504	1780	1781	1739	1716	1721	1802	1924	2165	2556	2322	1995	1673

ORIGINAL PAGE IS
OF POOR QUALITY

A.TITUDE= 500.C ENERGY= 50.000

PROTONS

	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-18.0	-16.0	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	7	5	3	3	1	1	1	1	1	1	1	1	1	1	1
-5.0	14	11	9	9	5	2	1	1	1	1	1	1	1	1	1
-6.0	30	24	21	14	5	1	1	1	1	1	1	1	1	1	1
-7.0	46	44	35	19	3	1	1	1	1	1	1	1	1	1	1
-8.0	85	83	54	21	10	6	3	1	1	1	1	1	1	1	1
-9.0	156	123	71	46	34	30	23	16	8	2	1	1	1	1	1
-10.0	204	139	114	99	97	87	50	27	17	8	4	1	1	1	1
-11.0	238	208	207	226	146	83	55	38	28	18	11	5	2	1	1
-12.0	324	370	337	204	126	88	71	55	44	34	22	12	5	1	1
-13.0	549	421	267	178	132	111	45	81	72	58	41	26	12	5	1
-14.0	509	349	237	184	157	147	135	125	114	92	72	48	27	11	4
-15.0	431	310	242	215	208	195	194	194	174	156	122	78	47	25	13
-16.0	388	313	276	279	276	291	297	295	270	213	150	106	72	47	29
-17.0	391	356	355	379	392	427	446	416	306	234	183	145	105	76	51
-18.0	443	438	474	518	569	638	533	419	343	295	250	198	158	116	78
-19.0	526	577	668	746	790	633	529	461	418	382	339	281	218	164	122
-20.0	685	807	931	918	755	650	598	555	540	500	448	391	281	204	150
-21.0	947	1145	1034	873	789	736	711	721	715	688	549	380	291	253	206
-22.0	1357	1159	1016	927	869	884	917	954	969	659	483	399	351	322	275
-23.0	1300	1143	1041	1007	1054	1097	1243	1074	767	587	518	463	454	413	368
-24.0	1267	1174	1155	1213	1300	1474	1192	876	707	637	599	596	581	488	348
-25.0	1293	1300	1377	1484	1730	1318	1001	833	750	743	749	747	522	399	335
-26.0	1436	1502	1707	1867	1440	1114	948	883	886	925	765	564	452	397	377
-27.0	1668	1878	1983	1569	1231	1074	1001	1039	1038	803	611	516	470	453	448
-28.0	2045	2081	1691	1344	1189	1130	1176	1075	839	661	572	540	538	475	369
-29.0	2175	1818	1441	1298	1245	1319	1109	887	705	634	610	611	456	369	302
-30.0	1905	1536	1390	1355	1440	1157	936	760	689	674	600	454	373	317	290
-31.0	1602	1459	1450	1527	1192	981	803	752	745	596	454	379	332	312	271
-32.0	1522	1519	1594	1226	1024	646	799	776	589	461	391	349	328	260	220

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ALTITUDE= 500.0 ENERGY= 50.000

PROTONS

	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	6	2	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	14	7	2	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	29	14	5	2	1	1	1	1	1	1	1	1	1	1	1
-18.0	51	25	12	5	3	1	1	1	1	1	1	1	1	1	1
-19.0	80	47	20	17	10	5	3	2	1	1	1	1	1	1	1
-20.0	117	87	61	41	25	15	8	5	3	1	1	1	1	1	1
-21.0	164	134	97	71	49	30	18	11	6	4	1	1	1	1	1
-22.0	235	194	148	115	80	59	45	37	28	22	17	12	8	6	3
-23.0	311	224	173	139	117	96	85	71	62	53	43	39	32	25	20
-24.0	272	233	198	179	156	142	130	116	102	96	86	75	66	56	45
-25.0	299	272	255	245	223	206	167	138	120	111	94	83	75	65	58
-26.0	356	337	320	242	206	169	147	131	121	106	94	83	75	65	58
-27.0	380	298	242	206	183	165	153	146	132	123	113	91	82	75	67
-28.0	293	252	225	203	190	176	167	146	123	110	99	90	84	77	70
-29.0	269	248	230	209	190	176	167	146	123	110	99	89	81	75	70
-30.0	272	234	199	166	147	134	123	116	108	101	95	90	85	78	72
-31.0	225	189	166	151	139	133	119	104	110	107	99	89	81	75	70
-32.0	188	171	158	143	122	106	95	39	83	78	74	71	68	65	62

ORIGINAL PAGE IS
OF POOR QUALITY

M-124

	ALTITUDE= 500.0		ENERGY= 50.000				PROTONS									
	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-22.0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-23.0	13	7	3	1	1	1	1	1	1	1	1	1	1	1	1	
-24.0	36	25	15	6	2	1	1	1	1	1	1	1	1	1	1	
-25.0	49	40	28	17	8	2	1	1	1	1	1	1	1	1	1	
-26.0	57	48	38	28	17	9	2	1	1	1	1	1	1	1	1	
-27.0	59	59	48	36	25	15	5	1	1	1	1	1	1	1	1	
-28.0	64	55	48	39	29	18	8	2	1	1	1	1	1	1	1	
-29.0	65	59	51	41	30	20	10	3	1	1	1	1	1	1	1	
-30.0	63	56	48	39	30	21	12	3	1	1	1	1	1	1	1	
-31.0	55	50	44	37	20	22	14	6	1	1	1	1	1	1	1	
-32.0	57	50	43	37	20	22	14	7	1	1	1	1	1	1	1	

M-125

ALTITUDE: 500 KM

PROTONS: E > 100. MEV

TRAPPED PROTON MODEL: AP8 (SOLAR MIN)

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ORIGINAL PAGE 19
OF POOR QUALITY

AL TITUDE= 500.0 ENERGY=100.000

PROTONS

	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

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ALTITUDE= 500.0 ENERGY=100.000

PROTONS

	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	2	3	2	1	1	1	1	1	1
-5.0	1	1	1	1	1	4	7	7	4	2	1	1	1	1	1
-6.0	1	2	9	3	9	14	14	12	8	5	2	2	1	1	2
-7.0	7	22	34	22	24	23	20	19	13	10	7	6	5	6	7
-8.0	32	49	53	42	39	35	31	27	27	19	16	16	19	22	20
-9.0	52	64	72	55	51	47	44	42	38	38	39	37	38	40	40
-10.0	68	77	89	70	66	63	60	59	58	57	59	62	62	72	82
-11.0	85	93	106	86	87	87	84	88	88	87	94	105	128	147	177
-12.0	96	114	137	112	118	120	126	126	137	140	158	200	236	230	195
-13.0	117	144	178	162	167	180	198	198	205	256	307	333	288	258	236
-14.0	154	184	236	222	239	264	298	298	362	417	390	360	330	320	321
-15.0	191	256	317	317	351	433	488	488	472	460	427	421	415	434	476
-16.0	256	340	439	462	533	534	524	522	513	503	511	575	597	533	426
-17.0	354	497	571	563	576	580	576	597	589	595	612	698	597	501	356
-18.0	505	663	808	648	625	629	664	684	684	723	778	660	560	421	332
-19.0	564	610	659	703	671	696	735	778	842	829	724	620	494	387	332
-20.0	590	652	711	785	860	802	871	957	876	777	671	561	454	394	371
-21.0	641	718	807	904	1022	955	1005	915	827	730	634	514	450	425	439
-22.0	698	812	927	1048	996	1015	939	862	765	690	581	511	484	499	550
-23.0	806	946	987	968	932	871	812	797	736	628	562	540	560	630	702
-24.0	906	917	937	894	852	815	766	765	658	609	593	624	709	798	956
-25.0	824	826	829	813	795	753	703	700	651	654	680	764	892	1027	870
-26.0	731	749	752	759	716	690	679	679	685	726	845	986	1086	948	831
-27.0	658	656	664	669	663	699	746	725	775	896	1070	1137	1016	894	688
-28.0	543	579	615	644	692	758	864	822	954	1158	1183	1067	952	906	900
-29.0	498	546	606	677	761	903	1011	1011	1222	1208	1096	994	960	967	1023
-30.0	501	568	609	771	933	1135	1269	1283	1198	1106	1018	999	1020	1092	1247
-31.0	553	657	793	965	1147	1191	1271	1176	1098	1040	1033	1075	1146	1319	1284
-32.0	642	792	964	1116	1296	1057	1134	1076	1036	1054	1104	1198	1397	1309	1125
							1032	1025	1058	1117	1244	1452	1323	1140	956

ORIGINAL PAGE IS
OF POOR QUALITY

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ALTITUDE= 500.0		ENERGY=100.000		PROTONS											
	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-18.0	-16.0	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	2	2	2	3	2	1	1	1	1	1	1	1	1	1	1
-6.0	9	9	3	9	1	1	1	1	1	1	1	1	1	1	1
-7.0	19	20	16	14	7	4	2	1	1	1	1	1	1	1	1
-8.0	44	45	32	33	26	24	20	13	6	1	1	1	1	1	1
-9.0	97	82	50	71	71	67	43	21	13	6	2	1	1	1	1
-10.0	139	98	31	71	107	67	44	29	20	12	6	2	1	1	1
-11.0	167	150	146	156	97	70	53	40	31	22	13	6	2	1	1
-12.0	231	261	233	146	103	83	69	57	49	36	23	12	5	2	1
-13.0	390	291	188	132	132	105	95	85	74	54	38	22	11	4	1
-14.0	362	242	172	140	118	148	135	126	107	89	60	35	21	11	5
-15.0	295	220	179	160	148	189	193	183	157	116	79	54	36	23	14
-16.0	272	226	202	198	189	258	273	274	174	133	102	79	56	40	26
-17.0	278	257	252	258	258	360	389	246	199	169	143	112	88	64	41
-18.0	315	310	322	339	360	482	379	269	245	222	195	162	125	91	66
-19.0	370	392	434	469	482	453	385	325	317	292	260	225	162	117	85
-20.0	466	524	595	560	453	524	469	433	416	402	319	222	169	145	118
-21.0	616	713	631	524	469	511	516	562	566	383	282	232	204	184	157
-22.0	843	707	612	550	511	613	639	723	627	341	300	267	261	234	207
-23.0	793	689	617	592	753	853	695	509	409	368	342	339	326	270	188
-24.0	763	696	679	706	995	767	380	479	431	421	422	414	281	211	174
-25.0	766	763	800	856	837	645	542	503	499	516	414	297	235	203	189
-26.0	842	671	979	1071	611	568	581	573	573	427	316	263	236	223	223
-27.0	966	1074	1135	911	711	638	584	440	337	289	267	269	227	162	162
-28.0	1170	1189	982	771	674	734	597	461	357	316	298	291	207	152	116
-29.0	1241	1050	826	736	700	798	617	482	381	325	279	197	146	116	97
-30.0	1091	880	790	759	631	502	400	366	356	272	191	144	118	100	81
-31.0	917	829	810	844	631	502	400	366	356	272	191	144	118	100	81
-32.0	863	847	877	646	520	419	385	368	266	189	144	120	101	75	57

M-128

ALTITUDE= 500.0		ENERGY=100.000				PROTONS										
	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-16.0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-17.0	6	3	1	1	1	1	1	1	1	1	1	1	1	1	1	
-18.0	14	6	3	1	1	1	1	1	1	1	1	1	1	1	1	
-19.0	26	12	5	3	1	1	1	1	1	1	1	1	1	1	1	
-20.0	43	25	15	8	5	2	1	1	1	1	1	1	1	1	1	
-21.0	66	49	34	21	12	7	4	1	1	1	1	1	1	1	1	
-22.0	94	77	54	38	25	15	8	5	3	2	1	1	1	1	1	
-23.0	133	110	82	62	42	31	24	19	14	11	9	7	5	4	3	
-24.0	174	122	94	74	62	50	44	37	32	28	24	20	17	14	11	
-25.0	145	124	104	92	82	72	66	59	52	47	42	38	34	30	27	
-26.0	154	140	129	121	111	101	80	63	52	45	40	36	33	30	27	
-27.0	180	166	152	140	128	116	97	80	67	56	47	40	35	30	26	
-28.0	178	130	99	79	66	57	49	44	42	39	36	33	30	27	24	
-29.0	119	96	74	68	59	53	46	40	38	35	32	29	26	23	20	
-30.0	95	81	72	59	47	39	33	29	26	23	20	18	16	14	12	
-31.0	84	68	52	43	36	31	27	24	21	19	17	15	14	12	10	
-32.0	61	49	40	35	30	26	23	20	17	16	14	12	11	9	8	
-33.0	47	39	34	29	24	21	19	17	16	15	14	12	11	9	8	

ORIGINAL PAGE IS
OF POOR QUALITY

M-129

ALTITUDE= 500.0		ENERGY=100.000				PROTONS									
	30.0	32.0	34.0	35.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	6	3	1	1	1	1	1	1	1	1	1	1	1	1	1
-24.0	19	12	7	3	1	1	1	1	1	1	1	1	1	1	1
-25.0	19	16	11	7	3	1	1	1	1	1	1	1	1	1	1
-26.0	19	16	13	10	6	3	1	1	1	1	1	1	1	1	1
-27.0	20	17	14	11	8	5	1	1	1	1	1	1	1	1	1
-28.0	15	13	11	9	6	4	1	1	1	1	1	1	1	1	1
-29.0	12	10	8	6	4	3	1	1	1	1	1	1	1	1	1
-30.0	10	8	7	5	4	2	1	1	1	1	1	1	1	1	1
-31.0	10	9	8	7	5	3	2	1	1	1	1	1	1	1	1
-32.0	11	10	9	7	6	4	2	1	1	1	1	1	1	1	1

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ALTITUDE: 500 KM

PROTONS: E>250. MEV

TRAPPED PROTON MODEL: AP8 (SOLAR MIN)

AA

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 500.0		ENERGY=250.000		PROTONS											
	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	3	7
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	2	5	8
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	4	7	10
-12.0	1	1	1	1	1	1	1	1	1	1	1	2	4	7	12
-13.0	1	1	1	1	1	1	1	1	1	1	1	2	4	9	15
-14.0	1	1	1	1	1	1	1	1	1	1	1	3	6	11	19
-15.0	1	1	1	1	1	1	1	1	1	1	1	4	9	15	24
-16.0	1	1	1	1	1	1	1	1	1	1	3	5	12	22	37
-17.0	1	1	1	1	1	1	1	1	1	1	4	10	18	33	54
-18.0	1	1	1	1	1	1	1	1	2	3	7	15	28	52	94
-19.0	1	1	1	1	1	1	1	1	2	6	13	25	47	95	158
-20.0	1	1	1	1	1	1	1	2	5	11	23	49	92	143	163
-21.0	1	1	1	1	1	1	1	1	11	25	53	102	129	149	170
-22.0	1	1	1	1	1	1	2	10	26	53	87	108	131	154	178
-23.0	1	1	1	1	1	1	5	23	44	63	85	108	130	156	186
-24.0	1	1	1	1	1	1	7	21	38	59	82	106	137	168	198
-25.0	1	1	1	1	1	1	8	20	38	60	85	115	150	183	193
-26.0	1	1	1	1	1	2	9	22	40	68	98	123	141	153	165
-27.0	1	1	1	1	1	3	10	24	41	60	78	98	115	131	141
-28.0	1	1	1	1	1	4	8	17	28	42	57	74	91	105	118
-29.0	1	1	1	1	1	3	7	14	24	36	49	63	78	91	105
-30.0	1	1	1	1	1	3	7	13	22	33	46	58	72	90	106
-31.0	1	1	1	1	1	2	6	13	22	32	45	60	76	94	115
-32.0	1	1	1	1	1	1	6	12	21	34	47	64	81	104	129

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ALTITUDE= 500.0		ENERGY=250.000		PROTONS											
	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	3	2	2	2	1	1	1	1	1	1	1	1
-7.0	1	4	5	6	6	4	3	2	2	1	1	1	1	1	1
-8.0	6	9	9	9	7	5	4	4	3	3	3	3	3	4	5
-9.0	9	12	14	12	10	9	7	7	5	5	7	8	9	13	18
-10.0	13	15	16	15	14	13	11	12	12	12	15	19	27	38	54
-11.0	16	17	19	19	19	19	20	20	23	25	33	50	69	70	57
-12.0	17	20	25	27	29	30	33	39	43	63	88	102	86	75	65
-13.0	20	26	34	40	45	50	58	73	97	129	119	107	95	87	80
-14.0	28	35	49	61	74	88	122	151	145	139	127	119	111	107	107
-15.0	36	55	74	100	130	164	164	160	157	151	141	136	140	122	91
-16.0	55	82	120	174	177	177	175	178	172	166	162	170	138	109	80
-17.0	89	144	176	164	190	190	195	192	189	190	191	155	128	96	78
-18.0	151	179	186	196	201	205	211	213	219	205	171	144	113	92	81
-19.0	173	186	198	209	219	228	236	246	217	185	157	129	108	96	92
-20.0	179	195	210	227	241	255	258	227	198	172	146	123	110	106	109
-21.0	190	209	230	240	268	259	233	207	181	159	139	124	120	124	135
-22.0	199	226	248	271	252	233	210	189	170	151	137	134	139	154	167
-23.0	216	246	251	242	229	209	193	178	158	149	147	155	173	190	215
-24.0	228	228	223	215	203	193	179	169	159	161	169	186	211	234	191
-25.0	200	198	198	193	188	178	171	166	169	180	206	233	249	209	181
-26.0	172	177	177	177	171	168	170	179	191	218	252	261	224	195	179
-27.0	150	153	158	162	167	172	184	203	231	272	271	236	209	194	191
-28.0	130	140	150	158	171	188	212	243	286	277	243	218	207	205	214
-29.0	122	135	150	168	188	220	255	298	274	245	224	215	216	228	252
-30.0	124	141	166	189	225	268	293	267	243	228	223	227	239	267	251
-31.0	137	161	192	229	267	273	254	237	227	226	233	249	282	256	211
-32.0	155	189	225	256	247	234	227	223	225	235	258	292	258	213	164

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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 500.0		ENERGY=250.000				PROTONS									
	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-18.0	-16.0	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	7	7	7	4	2	1	1	1	1	1	1	1	1	1	1
-9.0	26	25	15	9	5	4	2	1	1	1	1	1	1	1	1
+10.0	42	29	21	16	12	9	6	3	2	1	1	1	1	1	1
+11.0	47	39	32	28	18	11	7	5	4	1	1	1	1	1	1
+12.0	60	55	44	28	19	14	11	8	5	3	1	1	1	1	1
+13.0	86	60	39	29	23	19	15	11	8	5	3	1	1	1	1
+14.0	74	52	39	32	28	24	21	17	12	7	4	2	1	1	1
+15.0	66	51	43	39	35	31	28	24	17	12	6	3	1	1	1
+16.0	63	55	49	48	44	43	38	31	23	16	10	6	3	1	1
+17.0	68	64	62	61	58	56	51	40	28	21	14	9	5	3	1
+18.0	78	77	78	77	77	75	59	45	37	28	20	12	8	4	2
+19.0	92	95	100	101	96	75	62	53	46	38	27	17	10	5	3
+20.0	114	123	130	117	92	79	72	66	57	47	34	22	12	9	6
+21.0	145	156	134	109	97	90	87	84	73	58	39	26	18	15	11
+22.0	188	152	129	115	108	108	110	102	93	54	37	30	24	21	17
+23.0	173	147	131	125	127	132	141	106	67	48	40	34	30	26	22
+24.0	164	148	144	146	155	170	121	79	60	51	46	41	37	29	19
+25.0	163	162	167	174	197	135	92	72	61	57	52	46	29	21	16
+26.0	178	182	198	211	149	104	82	72	67	65	45	31	23	18	15
+27.0	202	216	223	164	117	94	83	77	72	46	32	25	21	17	15
+28.0	235	234	178	129	104	94	88	72	46	34	27	23	19	15	8
+29.0	243	192	140	114	103	99	73	48	35	28	25	21	12	6	4
+30.0	203	150	123	112	109	74	49	37	30	27	19	10	6	4	2
+31.0	157	130	120	116	75	51	39	32	29	17	9	5	3	2	1
+32.0	136	125	120	76	52	40	33	29	16	9	5	3	2	1	1

ALTITUDE= 500.0		ENERGY=250.000				PROTONS										
	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-20.0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-21.0	5	3	1	1	1	1	1	1	1	1	1	1	1	1	1	
-22.0	8	6	3	1	1	1	1	1	1	1	1	1	1	1	1	
-23.0	13	9	5	3	1	1	1	1	1	1	1	1	1	1	1	
-24.0	17	11	7	5	3	1	1	1	1	1	1	1	1	1	1	
-25.0	13	10	8	6	5	2	2	1	1	1	1	1	1	1	1	
-26.0	12	11	8	7	6	5	3	2	1	1	1	1	1	1	1	
-27.0	13	11	8	5	3	2	1	1	1	1	1	1	1	1	1	
-28.0	10	6	3	2	1	1	1	1	1	1	1	1	1	1	1	
-29.0	4	3	2	1	1	1	1	1	1	1	1	1	1	1	1	
-30.0	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	
-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE: 500 KM

PROTONS: E > 500. MEV

TRAPPED PROTON MODEL: APS (SOLAR MIN)

BB

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 500.C		ENERGY=500.000		PROTONS											
	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	2	5
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	2	11
-19.0	1	1	1	1	1	1	1	1	1	1	1	2	4	12	23
-20.0	1	1	1	1	1	1	1	1	1	1	6	5	12	21	23
-21.0	1	1	1	1	1	1	1	1	1	2	11	14	19	21	23
-22.0	1	1	1	1	1	1	1	1	2	7	12	15	17	20	22
-23.0	1	1	1	1	1	1	1	3	6	8	11	13	15	17	19
-24.0	1	1	1	1	1	1	1	2	4	6	9	11	13	15	17
-25.0	1	1	1	1	1	1	1	1	3	5	7	9	11	13	14
-26.0	1	1	1	1	1	1	1	1	2	3	6	7	9	10	11
-27.0	1	1	1	1	1	1	1	1	1	2	4	5	7	8	9
-28.0	1	1	1	1	1	1	1	1	1	2	3	4	6	7	8
-29.0	1	1	1	1	1	1	1	1	1	2	3	4	6	7	9
-30.0	1	1	1	1	1	1	1	1	1	2	3	5	6	7	10
-31.0	1	1	1	1	1	1	1	1	1	2	3	5	7	8	11
-32.0	1	1	1	1	1	1	1	1	1	2	3	5	7	9	11

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ALTITUDE= 500.0		ENERGY=500.000		PROTONS											
	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	2	2	3	2	2	2	3	4	7	12	15	12	10	8
-14.0	2	2	4	6	4	4	5	8	12	19	17	14	11	9	7
-15.0	3	5	8	12	8	10	16	22	21	19	16	13	10	8	6
-16.0	5	9	15	26	26	26	24	23	21	18	15	12	9	7	5
-17.0	10	20	26	27	27	26	25	23	20	17	14	10	8	6	4
-18.0	22	26	27	27	27	26	24	22	19	15	12	9	8	6	4
-19.0	25	26	27	27	27	26	23	21	17	13	11	9	8	6	4
-20.0	25	26	27	27	26	24	22	18	14	12	10	9	8	6	4
-21.0	24	26	26	25	24	22	18	15	12	10	9	8	7	5	4
-22.0	23	24	24	23	21	18	16	14	13	12	11	10	9	7	5
-23.0	21	22	21	19	17	15	14	13	12	11	10	9	8	6	4
-24.0	18	18	17	16	15	14	13	12	11	10	9	8	7	5	4
-25.0	14	14	14	14	14	14	14	13	12	11	10	9	8	6	4
-26.0	12	12	13	13	13	14	14	13	12	11	10	9	8	6	4
-27.0	11	11	12	13	14	15	16	15	14	13	12	11	10	8	6
-28.0	10	11	12	13	15	16	18	20	19	18	17	16	15	13	11
-29.0	10	11	13	15	16	19	20	23	22	21	20	19	18	16	14
-30.0	11	12	14	16	18	21	23	22	20	19	18	17	16	14	12
-31.0	12	13	16	18	21	22	20	19	18	17	16	15	14	12	10
-32.0	13	16	18	20	19	18	19	18	17	16	15	14	13	11	9

ORIGINAL PAGE IS
OF POOR QUALITY

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ALTITUDE= 500.0		ENERGY=500.000		PROTONS											
	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-18.0	-16.0	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	5	3	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	4	2	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	4	2	2	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	4	3	2	2	2	1	1	1	1	1	1	1	1	1	1
-15.0	4	3	3	3	2	2	1	1	1	1	1	1	1	1	1
-16.0	4	4	4	4	3	2	2	1	1	1	1	1	1	1	1
-17.0	5	5	5	4	4	3	2	1	1	1	1	1	1	1	1
-18.0	7	7	6	5	4	4	3	2	2	1	1	1	1	1	1
-19.0	8	8	7	6	5	4	4	3	2	2	1	1	1	1	1
-20.0	10	9	9	7	6	6	6	4	3	2	2	1	1	1	1
-21.0	12	11	9	8	7	7	7	6	4	3	2	1	1	1	1
-22.0	13	11	9	9	9	9	9	6	4	3	2	1	1	1	1
-23.0	13	11	10	10	11	11	9	7	5	3	2	1	1	1	1
-24.0	12	12	12	13	13	14	10	9	6	4	3	2	1	1	1
-25.0	13	14	14	15	15	16	10	9	6	4	3	2	1	1	1
-26.0	15	15	16	17	17	18	10	9	6	4	3	2	1	1	1
-27.0	17	18	18	19	19	20	10	9	6	4	3	2	1	1	1
-28.0	19	19	19	20	20	21	10	9	6	4	3	2	1	1	1
-29.0	19	13	18	19	19	20	10	9	6	4	3	2	1	1	1
-30.0	14	9	7	6	5	4	4	3	2	1	1	1	1	1	1
-31.0	10	7	6	5	4	3	3	2	1	1	1	1	1	1	1
-32.0	8	6	5	4	3	2	2	1	1	1	1	1	1	1	1

ALTITUDE: 600 KM

ELECTRONS: $E > .10$ MEV

INNER ZONE MODEL: AE5 (SOLAR MIN)

CC

ORIGINAL PAGE IS
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[illegible]

	ALTITUDE= 600.0		ENERGY= 0.100		ELECTRONS											
	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0	
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	7	26	
-2.0	1	1	1	1	1	1	1	1	1	1	1	4	16	42	100	
-3.0	1	1	1	1	1	2	3	6	11	20	38	63	105	143	255	
-4.0	3	4	5	6	12	15	24	39	56	92	149	263	429	713	1099	
-5.0	8	10	15	21	30	43	67	101	151	251	389	591	878	1407	1862	
-6.0	12	18	25	36	55	81	125	183	280	454	692	1015	1551	2137	2863	
-7.0	16	24	35	52	76	122	183	276	433	671	1031	1490	2198	3094	4119	
-8.0	21	29	44	65	96	149	246	389	589	934	1348	2077	3002	4077	5207	
-9.0	24	34	51	78	125	189	308	477	739	1175	1715	2640	3760	4986	6615	
-10.0	27	41	64	96	143	223	370	578	926	1420	2103	3270	4590	6390	8178	
-11.0	31	45	68	108	172	271	441	673	1089	1692	2691	3881	5865	7600	10257	
-12.0	36	53	77	118	191	288	492	788	1264	2041	3122	4537	6699	8838	11108	
-13.0	44	61	91	133	205	335	545	829	1345	2191	3370	4910	7238	9500	12619	
-14.0	54	77	109	162	256	399	618	954	1567	2416	3740	5464	8048	11212	14764	
-15.0	73	103	143	204	307	456	719	1125	1755	2733	4260	6245	9195	12756	17761	
-16.0	89	132	181	263	402	609	914	1452	2149	3380	5306	7807	11495	15883	21938	
-17.0	115	160	244	369	540	781	1191	1800	2878	4286	6355	10012	14748	20304	27832	
-18.0	138	210	315	468	742	1093	1589	2438	3702	5572	8320	13163	19399	28398	38666	
-19.0	162	247	381	613	969	1522	2324	3377	5196	7903	11852	17716	26131	38138	54998	
-20.0	189	308	485	723	1172	1852	3056	4983	7502	10811	16377	26121	38576	56225	80700	
-21.0	208	346	577	912	1491	2318	3912	6019	10283	15944	25686	39874	57492	89058	127010	
-22.0	200	382	661	1120	1791	3116	4882	7856	12898	20218	33008	51923	78671	122516	176514	
-23.0	181	376	679	1279	2229	3581	6231	10321	16341	26666	44489	66233	107640	138980	165514	
-24.0	118	310	662	1328	2532	4405	7678	12520	21854	33948	57336	78509	101671	129953	164300	
-25.0	66	217	541	1277	2586	4643	8676	14980	23907	36933	52961	74366	98180	133060	163920	
-26.0	39	166	458	1120	2280	4710	8462	14434	22407	35595	52176	74953	100881	139760	182899	
-27.0	32	144	458	1080	2272	4457	8260	14675	23417	36354	54518	80071	115191	155367	206963	
-28.0	20	135	437	1131	2565	4895	8757	15785	25661	40663	62195	93277	137050	187663	266750	
-29.0	8	97	437	1186	2644	5795	10782	17785	29955	48705	76009	116288	173435	227272	300913	
-30.0	1	57	338	1175	3120	6350	12668	23131	40025	61106	93059	137317	195155	269119	363451	
-31.0	1	34	343	1197	3434	7335	14112	26642	43695	72092	106271	160133	232043	326325	449059	
-32.0	1	14	245	1264	3761	8730	17312	31250	55753	88510	132980	204707	301270	451881	632080	

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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 600.0		ENERGY= 0.100		ELECTRONS													
	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0		
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	10
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	25	47
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	45	72
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	79	101
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	160	140
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	220	185
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	291	240
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	375	301
1.0	8	27	57	80	109	207	331	435	735	1043	1347	1728	2299	2994	3819	4855	5047
0.0	62	97	159	207	313	512	626	735	901	1043	1277	1535	1889	2299	2718	3201	3750
-1.0	164	267	357	491	737	939	1047	1076	1043	1043	1043	1043	1043	1043	1043	1043	1043
-2.0	394	577	759	1080	1404	1558	1532	1470	1347	1277	1135	897	730	649	553	454	354
-3.0	773	1168	1541	1965	2120	2261	2105	2032	1809	1728	1383	1133	1012	868	714	584	454
-4.0	1520	2115	2620	2897	3053	3109	2921	2761	2463	2130	1754	1478	1360	1281	1162	1021	884
-5.0	2584	3152	3735	4098	4182	4043	4004	3539	3080	2544	2299	1995	1889	1834	1829	1734	1629
-6.0	3991	4508	5137	5494	5441	5557	5166	4468	3939	3351	3118	2785	2718	2901	2984	2844	2744
-7.0	5186	6054	6709	7161	6956	7212	6114	5377	4888	4567	4102	4294	4319	4455	5047	5547	6047
-8.0	6555	7626	8647	9048	9059	8440	7377	6697	6273	6036	5959	6429	6662	7570	8380	9380	10380
-9.0	8092	9484	10758	11709	11051	10193	9209	9198	8879	8810	8664	9967	11370	13133	15407	18107	21091
-10.0	10256	12674	13205	12883	12493	12730	11884	12245	12197	13310	13961	15998	19902	19676	21091	23177	25177
-11.0	12880	14031	15220	15464	15570	15401	15842	16863	18488	19512	22505	28261	31213	31623	31777	34777	37777
-12.0	13267	15989	16988	19171	20034	20515	21835	24013	27185	31561	37569	46225	47603	51150	49863	55409	60409
-13.0	15865	18797	20867	22985	26590	28234	31097	37715	44057	52968	63653	71409	77124	67007	55409	47401	38401
-14.0	18324	22770	26400	30286	36426	40111	48798	57341	69524	90995	99227	105268	89379	76280	67401	58401	49401
-15.0	23210	28367	34403	41136	51462	58805	74057	90504	119383	135975	130068	113078	98323	88460	78460	68460	58460
-16.0	28339	36368	46143	57591	74924	94721	116589	155129	182912	157866	139872	124948	120067	113991	118544	118544	118544
-17.0	37917	51128	67924	88424	112171	148198	199157	209114	187190	170304	156206	147079	148300	156914	165437	165437	165437
-18.0	55558	73803	102620	131578	184824	243073	232345	215711	202233	191304	184442	190102	195804	219503	231819	231819	231819
-19.0	78159	109751	150369	211536	254486	250158	241015	233119	227890	225338	228577	251951	288855	295494	312762	312762	312762
-20.0	121024	176368	244471	257839	259792	259274	259677	252416	256959	280137	302625	348244	357819	398576	452290	452290	452290
-21.0	189416	230118	240478	258555	267052	278029	280073	295336	318742	369334	419471	442229	480866	578344	694837	694837	694837
-22.0	200537	225554	242825	262093	284276	309649	328400	365160	436318	473810	512865	569572	696836	880619	1046234	1046234	1046234
-23.0	195306	222271	252718	276852	313211	359725	418918	497367	537029	577314	684689	819919	1052836	1208757	1244351	1244351	1244351
-24.0	198081	229326	273324	312718	377726	440597	537586	585479	651235	765989	939414	1232786	1408573	1436738	1563129	1563129	1563129
-25.0	208185	252462	306806	373969	478149	585115	633219	731892	859150	1086068	1404558	1563404	1626180	1791947	2198156	2198156	2198156
-26.0	237445	293853	379119	488701	563962	653246	784903	959891	1209542	1612808	1685131	1793286	2075387	2499627	2683006	2683006	2683006
-27.0	285563	372841	477151	560263	681725	829495	1021400	1343321	1750318	1801494	1976344	2273782	2788802	2928021	3023255	3023255	3023255
-28.0	344641	433069	539967	668871	859263	1116184	1475555	1819689	1899934	2103116	2493378	3132438	3120437	3282460	3850628	3850628	3850628
-29.0	391202	521146	658992	869368	1155661	1589687	1803537	1972616	2209908	2642591	3328537	3322578	3568746	4161315	4328192	4328192	4328192
-30.0	482779	660708	895400	1200915	1601586	1779914	1941963	2278862	2854027	3394915	3428869	3783908	4512505	4515716	4232156	4232156	4232156
-31.0	634143	862152	1269299	1474000	1696895	1972650	2376642	2934098	3408898	3558852	3981637	4768705	4568258	4353918	4580590	4580590	4580590
-32.0	909350	1130362	1337753	1567914	1939951	2426678	3158025	3340223	3548959	4045160	5008429	4622503	4518374	4776543	4530572	4530572	4530572

ALTITUDE= 600.C ENERGY= 0.100

ELECTRONS

	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-18.0	-16.0	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	4	5	7	7	7	6	4	3	3	2	1	1	1	1	1
8.0	13	14	15	13	10	9	7	5	4	2	1	1	1	1	1
7.0	27	24	22	18	15	12	9	7	5	3	2	2	2	1	1
6.0	43	37	32	25	20	16	12	9	7	4	3	2	2	1	1
5.0	62	50	43	34	28	22	16	13	10	6	4	3	2	2	1
4.0	82	71	57	45	35	28	22	18	14	11	7	5	4	3	2
3.0	116	91	72	59	47	39	32	25	21	18	14	10	8	6	4
2.0	153	122	94	79	66	56	48	40	35	27	22	16	12	9	6
1.0	192	158	134	110	100	84	74	63	54	42	32	25	17	13	8
-1.0	248	210	184	167	148	138	123	101	80	64	48	36	26	18	12
-2.0	352	309	279	263	242	226	190	158	123	97	72	52	36	25	15
-3.0	517	468	438	426	395	342	298	236	192	145	113	75	52	36	18
-4.0	736	733	710	701	634	539	463	365	301	222	160	110	67	43	19
-5.0	1156	1189	1185	1125	994	881	720	598	451	327	226	139	80	43	17
-6.0	1879	1997	1935	1758	1514	1368	1163	896	650	454	301	170	92	41	14
-7.0	3166	3288	2983	2872	2518	2210	1739	1376	971	634	395	191	92	34	9
-8.0	5395	5177	4899	4491	4096	3313	2682	1905	1341	828	457	247	117	54	10
-9.0	7998	8002	7706	6848	6148	5128	3995	2829	1883	1249	757	469	257	132	46
-10.0	13329	12697	11868	11144	9634	7077	5245	3732	2841	2036	1358	888	515	254	117
-11.0	21381	19812	19646	15460	12024	9437	7596	6073	4630	2677	1686	1023	585	238	117
-12.0	33825	29437	22838	18759	16453	13959	11725	10084	8676	6840	4568	3510	2248	1508	778
-13.0	41578	34136	29728	25950	23126	21690	20839	18614	14752	11880	9586	7310	5246	3444	2142
-14.0	49023	42939	39457	39211	38708	36889	33948	29594	26692	24112	19570	16154	12035	8768	5522
-15.0	62602	60856	60454	62973	60677	58830	53558	53014	49586	48094	41186	36492	25509	19027	13945
-16.0	85125	88581	92107	91628	92741	93157	96001	99543	99927	92160	74705	63281	54478	42538	34037
-17.0	124167	133661	134122	135172	149091	159839	180586	181671	155942	146823	130498	123259	114069	101415	75466
-18.0	179721	180793	200937	218477	255209	299608	268784	249108	252735	258501	252491	242465	211677	173251	156167
-19.0	243594	271207	306989	374755	410923	388763	390420	407200	450126	464950	410218	377163	351288	345468	347865
-20.0	350515	415529	531968	546005	532520	570819	614685	735094	647477	634299	630128	663418	701885	607978	509182
-21.0	564334	719956	702576	706984	753642	911941	961781	899602	916599	1002916	1161441	980840	872343	795648	770232
-22.0	896738	878456	914275	1011320	1217505	1213001	1202720	1304736	1469244	1417298	1250190	1221586	1217110	1302092	1103821
-23.0	1031742	1108660	1271117	1583541	1480514	1545586	1719023	1994516	1738336	1624424	1649080	1775838	1545016	1362837	1289549
-24.0	1851743	2121204	2138153	2289595	2762667	2590491	2415959	2444240	2567928	2267103	2108277	2154479	1970070	1646142	1336437
-25.0	2370076	2453987	2696285	3345216	2902490	2763492	2920778	2806866	2566439	2476483	2520617	2037008	1716909	1465904	1289527
-26.0	2737184	3066148	3600193	3180374	3135576	3390146	3020335	2844642	2889011	2590377	2141967	1812335	1606574	1512681	1467709
-27.0	3422191	3869310	3497554	3451259	3730413	3284307	3159768	3189185	2669209	2251108	1950527	1785191	1768646	1835500	1765357
-28.0	4137481	3727202	3801095	3927384	3493810	3452504	3285924	2788118	2379400	2096107	2006660	2056081	2057255	1836194	1630471
-29.0	3995792	4102703	4158968	3690389	3699675	3398138	2891321	2512967	2257842	2330873	2399210	2124784	1908733	1760062	1680518
-30.0	4325214	4307813	3896859	3924419	3492398	2984103	2639483	2422865	2463509	2478463	2200205	1988656	1897466	1885702	1940377
-31.0	4446326	4055373	4156785	3596406	3098859	2769568	2576037	2663891	2545268	2288430	2093347	2061869	2104556	2095814	1848817
-32.0	4187054	4330918	3674575	3174986	2867193	2730028	2870219	2613414	2363235	2210880	2228269	2332139	2085235	1652230	1683932

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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 600.0 ENERGY= 0.100

ELECTRONS

	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	4	2	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	5	3	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	7	4	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	8	3	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	8	3	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	8	2	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	12	2	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	38	5	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	95	19	2	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	330	100	16	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	969	352	32	4	1	1	1	1	1	1	1	1	1	1	1
-13.0	2807	1417	480	62	1	1	1	1	1	1	1	1	1	1	1
-14.0	8626	4679	2123	847	111	1	1	1	1	1	1	1	1	1	1
-15.0	22910	14967	8547	3688	1524	171	1	1	1	1	1	1	1	1	1
-16.0	57146	42317	29407	20973	11698	6031	2204	346	1	1	1	1	1	1	1
-17.0	134081	112000	87037	72530	52917	32458	18811	8265	3607	552	1	1	1	1	1
-18.0	332389	247007	196765	153798	119802	91613	67322	50613	31089	17709	9720	2873	1	1	1
-19.0	444394	358773	367754	325290	295019	251321	193996	151703	110081	78941	51075	37112	22719	11407	52899
-20.0	784778	752445	605899	516126	438897	369373	323924	274320	234724	198762	168898	141930	111733	79063	119309
-21.0	963837	665300	817137	769786	727591	694434	563704	456164	360656	291506	238634	199753	170467	138500	139440
-22.0	1257160	1324796	1030374	826543	667011	537638	446291	373247	326305	281758	245446	218568	187080	170173	155043
-23.0	1283031	1053399	874077	726282	638082	566668	519510	474093	448866	423755	389793	357153	329986	295691	255043
-24.0	1129171	994862	903228	835550	818617	800815	810553	811657	816807	737254	663494	611599	559536	519400	472629
-25.0	1187353	1160513	1188438	1234291	1131563	1017638	892996	809301	739465	666870	619172	581482	538986	487642	442556
-26.0	1540436	1515966	1313314	1189367	1056791	979454	908089	859218	829015	793931	753212	726244	693155	650618	595254
-27.0	1542792	1353474	1268965	1199207	1152782	1143192	1144147	1136944	1168152	1123433	1049696	981616	906272	840054	779653
-28.0	1518151	1439354	1420051	1463640	1531464	1386491	1250443	1146894	1042885	971606	914685	865193	805308	747865	689232
-29.0	1670584	1733975	1704767	1488364	1346287	1225337	1135566	1080795	1031624	976131	943913	916358	886915	846744	811486
-30.0	1873156	1644350	1480761	1356662	1279070	1247371	1212245	1192694	1142209	1058176	979239	899286	834684	783814	728511
-31.0	1653010	1514835	1437092	1415271	1414723	1264460	1151305	1049456	964912	906025	852857	798455	753443	712389	669971
-32.0	1579028	1566593	1514874	1327464	1203893	1093179	1023330	971333	923071	894834	879383	851928	802971	742368	691349

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ALTITUDE= 600.0		ENERGY= 0.100		ELECTRONS												
	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-20.0	31873	16914	1	1	1	1	1	1	1	1	1	1	1	1	1	
-21.0	94534	70436	48451	16095	1	1	1	1	1	1	1	1	1	1	1	
-22.0	115765	93408	69077	42293	17928	785	1	1	1	1	1	1	1	1	1	
-23.0	216997	178938	133457	96904	58209	24647	2933	1	1	1	1	1	1	1	1	
-24.0	426699	381494	320671	248607	161847	86465	29081	1	1	1	1	1	1	1	1	
-25.0	390698	349595	290999	233930	172257	108072	56689	16328	1	1	1	1	1	1	1	
-26.0	542924	484189	397489	324505	253941	177423	111709	53937	11220	1	1	1	1	1	1	
-27.0	725555	672122	606283	536035	447041	355913	249350	141304	48965	1	1	1	1	1	1	
-28.0	640125	577283	511814	437888	358574	275155	197228	118025	56760	13470	1	1	1	1	1	
-29.0	747832	664232	604900	515464	434143	349356	252072	170859	94550	30890	1	1	1	1	1	
-30.0	674671	608144	539345	473065	406803	322893	242227	165383	92306	39057	3082	1	1	1	1	
-31.0	627593	575774	513643	450660	382138	313455	238153	172124	110855	56183	13250	1	1	1	1	
-32.0	641138	588816	536530	466017	397346	335003	262609	191664	125411	66683	23571	1	1	1	1	

M-143

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE: 600 KM

ELECTRONS: $E > .25$ MEV

INNER ZONE MODEL: AE5 (SOLAR MIN)

DD

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 600.0		ENERGY= 0.250		ELECTRONS											
	-120.0	-118.0	-116.0	-114.0	-112.0	-110.0	-108.0	-106.0	-104.0	-102.0	-100.0	-98.0	-96.0	-94.0	-92.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

A-117UDE= 000.0 ENERGY= 0.250

ELECTRONS

	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	2	2	3	4	6	7	10	12	4	7	12	27	22	47	32
-5.0	5	6	9	12	16	22	32	45	64	91	150	220	323	510	681
-6.0	8	12	16	22	31	43	63	87	126	195	285	405	605	826	1112
-7.0	12	16	23	32	45	68	97	139	206	305	450	630	906	1261	1673
-8.0	15	21	29	42	59	87	135	203	294	445	618	919	1297	1737	2212
-9.0	18	25	35	52	79	114	176	259	383	582	818	1216	1690	2210	2909
-10.0	21	30	45	65	92	138	217	323	494	727	1038	1558	2133	2913	3696
-11.0	23	33	48	74	113	170	264	387	597	890	1358	1899	2786	3560	4741
-12.0	27	39	55	81	125	182	298	457	704	1092	1612	2272	3254	4208	5210
-13.0	32	44	63	90	134	211	329	484	754	1179	1750	2473	3537	4549	5922
-14.0	39	55	75	109	165	249	372	554	874	1301	1943	2754	3935	5345	6898
-15.0	51	69	96	134	195	282	428	647	974	1464	2203	3133	4475	6052	8216
-16.0	60	88	119	168	249	366	534	818	1175	1784	2703	3858	5510	7425	9997
-17.0	74	103	154	228	325	458	678	994	1534	2217	3188	4488	6927	9298	12427
-18.0	85	127	189	277	431	618	877	1306	1923	2809	4069	6213	8882	12612	16741
-19.0	94	142	217	343	534	824	1231	1744	2604	3842	5610	8107	11600	16422	22970
-20.0	102	166	259	394	613	952	1536	2450	3607	5070	7451	11470	16433	23232	32341
-21.0	104	174	288	462	732	1125	1858	2807	4666	6669	11066	16293	23375	34944	48334
-22.0	92	177	306	516	820	1404	2176	3444	5527	8463	13426	20513	30168	45343	63295
-23.0	76	159	289	543	943	1503	2576	4200	6636	10428	16908	24568	38554	49394	58587
-24.0	45	119	257	516	979	1697	2927	4723	7679	12316	20219	27663	35759	45560	57334
-25.0	22	76	190	449	911	1638	3032	5184	8286	12837	18415	25828	34034	45947	56332
-26.0	13	55	154	378	773	1603	2890	4939	7679	12202	17881	25625	34391	47406	61661
-27.0	10	47	153	365	764	1504	2789	4747	7907	12258	16372	26886	38479	51600	68221
-28.0	6	43	142	372	844	1614	2891	5215	8488	13405	20474	30534	44536	60723	85528
-29.0	2	24	135	371	842	1843	3436	5698	9612	15582	24248	36812	54716	70563	91291
-30.0	1	16	100	351	943	1930	3859	7075	12277	18673	28222	41044	57650	78020	102959
-31.0	1	9	94	335	975	2093	4043	7638	12554	20518	30106	44643	64003	88189	118513
-32.0	1	3	81	327	991	2320	4602	8326	14837	23370	34928	52839	76965	112641	153693

M-145

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 600.0		ENERGY= 0.250		ELECTRONS											
	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	2	8	18	26	36	45	55	61	65	65	65	65	65	65	65
0.0	19	31	53	69	107	190	254	323	341	333	325	296	269	231	190
-1.0	54	89	120	166	268	370	446	493	509	469	461	425	346	287	257
-2.0	133	195	256	388	539	644	680	696	676	673	626	516	431	388	336
-3.0	259	396	534	747	859	73	966	984	924	920	767	645	585	509	480
-4.0	532	766	991	1157	1287	1384	1373	1361	1272	1140	963	829	770	729	665
-5.0	961	1211	1490	1703	1825	1852	1914	1773	1599	1355	1244	1096	1044	1013	1005
-6.0	1523	1812	2131	2367	2444	2589	2510	2249	2025	1759	1654	1492	1456	1538	1565
-7.0	2126	2532	2881	3173	3194	3417	3001	2695	2489	2350	2132	2221	2221	2267	2515
-8.0	2797	3301	3819	4096	4230	4039	3605	3324	3147	3044	3005	3208	3289	3660	3932
-9.0	3571	4220	4855	5404	5183	4857	4457	4476	4344	4310	4362	4774	5333	5985	5889
-10.0	4625	5737	6066	5982	5863	6007	5667	5840	5817	6283	6520	7317	8822	8437	8624
-11.0	5916	6447	6997	7149	7237	7197	7404	7841	8508	8886	10036	12215	13002	12622	12085
-12.0	6161	7353	7815	8777	9174	9396	9949	10830	12071	13724	15915	16799	18546	18903	17533
-13.0	7335	8605	9506	10420	11933	12607	13743	16327	18683	21879	25396	27167	27824	23557	19577
-14.0	8433	10322	11848	13455	15938	17370	20701	23824	28143	35515	37042	37434	31407	26453	23065
-15.0	10622	12667	15130	17816	21837	24568	30151	35902	45663	49797	46225	39719	34086	30240	29219
-16.0	12654	15912	19782	24189	30672	37788	45320	58146	65692	56053	49101	43293	40971	38305	39096
-17.0	16504	21695	28095	35647	44068	56444	73146	74997	66446	59718	54068	50163	49768	51572	52985
-18.0	23331	30211	40735	50903	68967	87863	83164	76537	70804	66126	62834	63661	64241	70040	70597
-19.0	31659	43112	57275	77718	91802	89317	85240	81451	78628	76624	76424	82421	92122	89625	89761
-20.0	46799	65795	88371	92443	92479	91303	90493	86927	87229	93416	98798	110808	107878	113349	121151
-21.0	69549	82663	85887	91718	93699	96565	96157	99969	106055	120389	132280	132171	135839	153460	173195
-22.0	71610	80131	85513	91545	98314	105839	110085	121072	141834	148371	152257	159801	183864	218288	244336
-23.0	68762	77709	87737	95259	106635	120696	138202	160918	166493	170159	190277	215446	259158	281951	281909
-24.0	68727	79040	93346	105676	125829	144619	172349	179576	190018	211389	245349	301273	328001	324878	342038
-25.0	71049	85462	102717	123696	155685	175413	191516	210748	234605	280772	340668	363457	367389	391632	464411
-26.0	79424	97410	124138	157159	174998	194322	222846	258574	309328	387046	390986	405113	452961	526511	552421
-27.0	93153	120182	149895	170110	198462	231058	271258	338244	416128	416698	445214	495700	585567	603234	618449
-28.0	108412	132053	159466	190352	233897	290501	363886	430116	437542	471382	541467	654711	643175	672624	773895
-29.0	115588	148760	181980	231034	293505	383857	423376	450889	491780	569737	694160	685128	732181	835470	865034
-30.0	133205	176077	229646	296159	379389	4412050	440512	503768	609170	708189	707120	775718	904634	903546	834584
-31.0	162483	218671	302193	343085	388231	441371	520386	620844	710925	733816	814343	954351	914613	858644	899587
-32.0	214409	282653	306909	353036	429063	521421	659496	690905	731166	826376	999900	922763	890044	937938	848381

ALTITUDE= 600.0 ENERGY= 0.250

ELECTRONS

	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-18.0	-16.0	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	2	3	4	5	5	2	2	1	1	1	1	1	1	1	1
8.0	8	9	10	9	7	4	3	3	2	2	1	1	1	1	1
7.0	16	16	15	13	11	9	8	6	5	3	2	1	1	1	1
6.0	27	25	22	18	15	12	10	8	6	5	3	2	1	1	1
5.0	40	34	30	25	21	17	13	10	8	5	4	3	2	1	1
4.0	54	49	40	33	26	21	17	14	11	7	5	4	3	2	1
3.0	77	63	51	43	35	29	24	19	17	9	7	6	5	4	3
2.0	101	83	65	56	47	41	35	29	24	14	11	8	6	5	4
1.0	126	105	91	76	70	69	52	45	38	20	16	12	9	7	6
0.0	160	138	122	111	99	92	82	67	53	29	22	17	12	9	8
-1.0	222	156	179	168	154	143	119	98	76	42	31	24	17	12	10
-2.0	316	287	269	260	239	204	175	137	98	60	44	32	22	15	11
-3.0	436	432	416	406	360	301	253	197	159	82	63	41	28	17	12
-4.0	658	670	639	609	528	456	365	295	218	115	81	55	33	20	14
-5.0	1021	1068	991	892	748	654	539	404	285	154	104	63	36	19	12
-6.0	1634	1645	1454	1349	1145	967	737	561	383	194	125	69	38	16	9
-7.0	2607	2425	2210	1950	1701	1325	1026	701	472	242	145	69	32	11	5
-8.0	3636	3488	3218	2736	2340	1858	1378	957	636	280	153	83	39	18	6
-9.0	5613	5121	4554	4049	3313	2419	1784	1261	676	423	255	157	84	43	14
-10.0	8331	7342	6830	5317	4102	3195	2549	2016	1518	636	447	288	163	79	36
-11.0	12124	10228	7851	6378	5531	4630	3824	3219	2704	1156	844	516	309	173	69
-12.0	14436	11720	10088	8695	7635	7013	6569	5702	4380	2081	1472	1017	637	414	211
-13.0	16807	14533	13147	12807	12328	11413	10098	8454	7317	3411	2663	1971	1366	866	528
-14.0	21116	20150	19577	19806	18425	17082	14925	14115	12586	6337	4954	3942	2830	1981	1216
-15.0	28053	28731	28937	27493	26415	25224	24655	24161	22993	11620	9523	8086	5638	4162	3016
-16.0	39918	41565	39532	37788	39355	39935	42765	41085	34698	20662	16550	13833	11644	8891	6941
-17.0	55236	52670	55136	56930	62633	68800	60323	54674	34698	31934	27820	25879	23188	19877	14746
-18.0	70330	74044	78887	90128	93695	86517	85038	86422	54365	54134	51036	47546	41876	34521	30826
-19.0	94781	105371	125752	123928	118070	123708	128442	146366	91829	91924	81520	75509	69155	67268	66660
-20.0	141247	169182	160039	156947	161932	187544	193321	180651	128919	127449	124888	127899	134423	115508	97098
-21.0	209710	199774	201871	215393	248151	246470	241912	259885	183743	196147	223152	188921	166917	152324	144854
-22.0	234347	243890	269008	324744	300770	311989	340393	382722	283633	273422	241869	233420	231111	240628	203600
-23.0	294499	337221	380143	362450	383449	439491	438932	403703	337677	314111	313918	332731	279623	244587	226268
-24.0	392831	436023	434528	461512	541172	505097	472853	469633	392866	411324	371621	326142	303030	298788	265370
-25.0	487552	500386	542725	652478	569467	542600	558745	526025	484300	441595	378414	371019	337553	269415	220455
-26.0	559772	621193	707104	625651	616875	645841	563962	506503	463376	440179	422767	343279	284701	237935	207569
-27.0	688698	766036	687944	678719	707705	612115	559801	558804	509236	433141	356943	302203	260468	238660	231554
-28.0	824505	732966	747176	742681	651007	607951	573765	468286	447878	372014	323267	287443	276691	262269	261252
-29.0	787098	806137	780146	687503	648963	592245	485646	411320	368958	344623	319996	318935	310491	270097	236760
-30.0	849642	809926	724982	685662	608005	501067	430849	394114	385411	352317	368019	317376	282165	251933	238339
-31.0	834296	753258	725396	625601	519925	451199	417548	413671	389423	337372	303344	290897	268234	263404	262791
-32.0	775909	753827	638488	532450	466300	441239	442874	397545	346636	317844	310201	316802	270076	230869	201312

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ORIGINAL PAGE IS
OF POOR QUALITY

ALITUDE= 600.C ENERGY= 0.250

ELECTRONS

	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	4	2	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	4	2	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	5	2	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	27	5	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	86	25	4	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	229	82	19	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	605	307	101	13	1	1	1	1	1	1	1	1	1	1	1
-14.0	1834	987	439	173	21	1	1	1	1	1	1	1	1	1	1
-15.0	4585	2944	1664	711	283	30	1	1	1	1	1	1	1	1	1
-16.0	11292	8420	5910	4153	2285	1179	420	57	1	1	1	1	1	1	1
-17.0	26260	21981	16836	13582	9635	5935	3503	1480	643	99	1	1	1	1	1
-18.0	61490	46367	37927	29415	22740	17636	12497	9448	5754	3303	1766	514	1	1	1
-19.0	84465	76868	68397	61578	53417	46016	34964	27093	20243	14253	9352	6816	4029	2075	1
-20.0	147109	136308	111669	92033	78190	65351	55291	48309	40269	34435	29331	24047	19334	13475	9310
-21.0	171543	153700	140359	132684	121391	112708	92816	74098	59782	47748	40300	33304	28673	23937	20648
-22.0	215599	215934	171309	136344	108631	90355	73653	62505	54824	48090	41884	37233	31936	29085	24062
-23.0	216553	171884	142699	120888	104215	92398	85156	77150	71991	67151	61354	56947	52375	46934	40621
-24.0	186004	161290	145900	132999	128229	124456	122414	119719	118079	107990	96292	88132	80124	74486	68929
-25.0	192247	162124	180682	186409	166049	146383	130373	116385	106106	96025	88466	82594	76883	70302	63722
-26.0	233482	224619	192581	170826	152441	139001	129063	120318	115485	110376	103876	99465	94638	88865	81402
-27.0	227900	200157	182553	168891	161026	156406	155124	151532	152905	144988	133930	124373	114182	105435	97644
-28.0	216774	202717	196578	197253	202774	178881	157794	142150	127490	117297	109435	102149	94425	87458	80515
-29.0	230501	233027	222555	188751	166143	148004	134549	125761	109699	104968	101063	97110	92278	86791	80621
-30.0	244070	207921	181130	161462	148459	140247	133183	128680	121437	110946	100386	91986	84934	79241	73270
-31.0	202676	179751	165399	157206	152084	133768	119995	106497	96804	89234	82560	77072	72553	68458	64071
-32.0	182325	174747	161941	139269	123154	109647	100049	92736	87363	83939	81711	76705	70591	65284	60662

ALTITUDE= 600.0 ENERGY= 0.250

ELECTRONS

	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	5625	2911	1	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	16239	12018	7773	2630	1	1	1	1	1	1	1	1	1	1	1
-23.0	20060	16422	12349	7796	3470	161	1	1	1	1	1	1	1	1	1
-24.0	34763	28822	22089	16200	9971	4321	531	1	1	1	1	1	1	1	1
-25.0	61891	54572	45953	35586	23740	12945	4451	1	1	1	1	1	1	1	1
-26.0	56224	50289	42225	34541	25254	16222	8661	2626	1	1	1	1	1	1	1
-27.0	74283	66273	54826	45202	35610	25112	16099	7986	1711	1	1	1	1	1	1
-28.0	90754	64094	75880	66801	55783	44503	31123	17692	6171	1	1	1	1	1	1
-29.0	74699	67489	59938	51473	41773	32522	23653	14192	7003	1	1	1	1	1	1
-30.0	79242	72692	64579	55469	46993	36990	27246	18140	10050	1	1	1	1	1	1
-31.0	66703	60359	53784	47406	39979	31714	23985	16546	9460	343	1	1	1	1	1
-32.0	58953	53188	47635	42017	36316	28924	22120	15975	10426	5279	1220	1	1	1	1
	56038	50701	45197	39509	34082	28001	21864	15905	10456	5509	2030	1	1	1	1

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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE: 600 KM

ELECTRONS: $E > .50$ MEV

INNER ZONE MODEL: AE5 (SOLAR MIN)

EE

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 600.0		ENERGY= 0.500		ELECTRONS											
	-120.0	-118.0	-116.0	-114.0	-112.0	-110.0	-108.0	-106.0	-104.0	-102.0	-100.0	-98.0	-96.0	-94.0	-92.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

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ALTITUDE= 600.0		ENERGY= 0.500		ELECTRONS											
	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	2	5	9
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	6	25	40
-4.0	1	1	1	1	1	1	1	2	3	4	6	10	16	61	83
-5.0	2	2	3	4	4	5	7	8	11	15	21	28	40	112	151
-6.0	4	5	6	9	9	11	15	18	24	33	44	59	84	188	247
-7.0	6	7	9	12	15	20	25	32	43	58	78	103	140	281	355
-8.0		10	13	16	21	28	38	51	67	92	118	162	217	384	494
-9.0	10	12	16	21	29	38	53	70	94	129	168	231	303	530	658
-10.0	11	15	21	27	36	48	68	92	127	171	226	313	406	679	875
-11.0	13	16	22	32	44	61	86	115	161	219	306	400	549	822	1120
-12.0	14	19	25	35	49	66	98	138	194	276	376	496	665	985	1290
-13.0	17	21	29	38	53	76	109	148	210	301	413	546	731	899	1503
-14.0	19	25	33	45	63	88	121	161	241	332	459	609	813	1045	1768
-15.0	23	30	40	53	72	97	137	191	266	370	515	685	915	1170	2102
-16.0	26	36	47	62	87	119	163	231	310	436	611	816	1090	1368	2648
-17.0	29	39	56	78	106	141	196	268	383	518	697	980	1310	1663	3359
-18.0	29	43	62	88	130	176	237	330	455	621	841	1188	1588	2109	4324
-19.0	29	43	64	98	145	215	304	407	569	785	1072	1449	1940	2568	5777
-20.0	28	44	68	99	151	224	342	517	721	958	1317	1875	2512	3321	6764
-21.0	24	40	66	101	159	236	370	535	832	1193	1748	2408	3231	4467	8391
-22.0	18	35	60	100	155	254	382	579	880	1275	1892	2705	3721	5171	10281
-23.0	12	26	48	89	152	238	390	609	908	1371	2080	2859	4149	5319	11515
-24.0	6	16	36	71	133	226	378	591	955	1396	2145	2977	3896	5030	13907
-25.0	2	8	21	51	103	184	330	547	886	1392	2020	2868	3816	5218	17020
-26.0	1	6	17	42	85	178	321	551	863	1378	2037	2944	3974	5532	23086
-27.0	1	5	18	43	91	178	328	580	931	1436	2167	3175	4560	6144	
-28.0	1	4	17	45	104	198	351	631	1027	1610	2468	3668	5350	7298	
-29.0	1	3	16	45	102	225	419	693	1166	1880	2924	4421	6551	8640	
-30.0	1	1	11	41	112	230	459	841	1458	2250	3476	5171	7414	10274	
-31.0	1	1	11	43	125	271	525	998	1642	2715	4033	6074	8800	12400	
-32.0	1	1	7	44	137	325	651	1179	2101	3311	5004	7622	11221	16711	

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ORIGINAL PAGE IS
OF POOR QUALITY

	AL TITUDE= 600.0 ENERGY= 0.500 ELECTRONS														
	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	2	3	6	7	11	24	39	57	70	79	86	87	80	69	90
-1.0	6	10	13	17	33	53	74	94	110	115	124	125	110	97	112
-2.0	15	21	27	46	73	100	121	141	153	167	171	152	134	125	150
-3.0	27	42	65	98	128	162	183	207	215	232	209	186	175	157	194
-4.0	60	92	129	167	206	245	270	293	300	288	257	231	220	211	268
-5.0	121	161	213	263	309	344	385	391	378	338	321	293	282	274	378
-6.0	210	262	326	388	434	493	518	497	468	425	409	377	368	380	543
-7.0	318	392	468	546	588	667	627	589	562	543	504	519	513	512	750
-8.0	449	542	650	730	798	798	745	711	688	673	664	694	695	740	981
-9.0	607	727	836	988	960	949	901	915	898	891	892	944	1008	1069	1241
-10.0	815	1012	1036	1106	1108	1149	1108	1142	1137	1201	1219	1308	1474	1330	1501
-11.0	1069	1165	1265	1307	1338	1346	1385	1450	1539	1571	1697	1931	1918	1718	1864
-12.0	1139	1329	1413	1569	1641	1680	1760	1873	2018	2194	2406	2624	2388	2197	2161
-13.0	1341	1539	1681	1822	2041	2132	2273	2582	2825	3128	3391	3310	3059	2535	2644
-14.0	1525	1805	2026	2250	2578	2747	3131	3445	3848	4489	4318	3990	3416	2949	3437
-15.0	1840	2142	2475	2818	3303	3593	4169	4694	5519	5553	4968	4353	3821	3474	4694
-16.0	2140	2574	3060	3577	4289	4997	5666	6721	7007	6070	5418	4883	4735	4518	6375
-17.0	2640	3281	4018	4821	5635	6748	8085	8068	7248	6634	6134	5815	5898	6192	8797
-18.0	3450	4225	5327	6294	7885	9406	9019	8408	7917	7543	7318	7557	7706	8416	6375
-19.0	4329	5513	6848	8592	9873	9764	9426	9165	9018	8963	9079	9891	11062	11305	11961
-20.0	5786	7522	9461	10025	10191	10164	10246	10011	10233	11122	11865	13368	13735	15311	17199
-21.0	7687	8895	9371	10193	10501	11001	11134	11776	12652	14475	16176	17047	18489	21938	25660
-22.0	7767	8838	9505	10330	11274	12336	13024	14482	17075	18322	19828	21915	26368	32661	37737
-23.0	7608	8722	9984	10997	12484	14344	16581	19384	20819	22354	26338	31063	38954	43862	46283
-24.0	7798	9080	10874	12475	15013	17393	20836	22731	25248	29447	35626	45489	51506	53644	58745
-25.0	8265	10054	12199	14816	18765	21553	24605	28391	32995	41149	51667	57486	61004	67441	82787
-26.0	9428	11654	14938	18931	21885	25368	30392	36821	45652	59038	62263	67512	78435	94107	102948
-27.0	11189	14465	18453	21724	26442	31961	39371	50308	63876	65923	74665	86187	104939	113087	121992
-28.0	13200	16681	20888	25799	33002	42453	54720	66915	70947	79673	94643	117727	121276	133488	159154
-29.0	15033	20655	25335	33215	43332	58390	66719	73960	83959	100098	125549	130164	146007	172378	182516
-30.0	18445	25067	33645	44516	58476	66043	73084	86817	107809	129404	135331	155625	187442	191420	179413
-31.0	23829	32718	46305	54009	63319	74612	90546	110706	131353	141939	164692	198551	193826	184803	196069
-32.0	32638	41143	49563	58850	73621	91616	118589	129271	142873	167505	209027	196249	191968	204568	183517

ALTITUDE= 600.0		ENERGY= 0.500		ELECTRONS													
	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-18.0	-16.0	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0		
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	2	3	4	4	4	4	2	2	2	2	2	1	1	1	1	1	1
8.0	6	7	9	9	8	7	6	5	4	3	3	2	2	2	2	2	2
7.0	10	15	19	16	14	12	10	8	7	6	5	4	4	4	4	4	4
6.0	22	27	35	29	26	22	17	15	13	11	9	8	8	8	8	8	8
5.0	31	43	59	49	45	41	34	31	27	24	21	19	18	18	18	18	18
4.0	41	54	72	66	62	57	47	43	38	34	31	28	26	25	25	25	25
3.0	49	61	80	72	66	62	57	47	43	38	34	31	28	26	25	25	25
2.0	61	80	107	98	92	85	70	66	62	57	47	43	38	34	31	28	26
1.0	80	138	190	189	182	160	134	110	95	85	75	66	58	50	44	38	34
0.0	107	267	382	363	306	265	212	167	120	85	66	47	32	21	12	6	4
-1.0	138	382	532	467	397	327	263	191	136	87	54	30	16	9	4	2	1
-2.0	190	532	655	580	494	387	302	218	148	104	71	49	30	18	9	4	2
-3.0	267	655	863	727	590	473	348	264	202	148	115	82	54	35	19	9	4
-4.0	382	863	1094	879	732	579	443	374	306	245	186	141	102	62	36	20	11
-5.0	532	1094	1344	1100	870	731	653	558	466	393	326	248	175	127	82	44	27
-6.0	655	1344	1577	1318	1169	1033	922	852	795	679	539	441	359	272	193	123	74
-7.0	863	1577	1911	1701	1577	1552	1492	1364	1250	1110	1006	897	715	576	417	294	181
-8.0	1094	1911	2482	2412	2362	2379	2230	2206	2118	1993	1838	1728	1624	1523	1424	1325	1227
-9.0	1344	2482	3356	3459	3469	3435	3510	3529	3581	3581	3446	3190	2680	2321	2006	1553	1217
-10.0	1577	3356	4813	5006	5076	5133	5606	5851	6412	6338	5618	5385	4809	4517	4109	3512	2677
-11.0	1911	4813	6784	6866	7610	8161	9326	10419	9615	9108	9357	9552	9041	8526	7901	6728	6186
-12.0	2482	6784	9279	10289	11499	13523	14497	14117	14448	15126	16281	16613	15473	14837	13995	13750	13750
-13.0	3356	9279	13348	15477	18976	19533	19557	21297	22656	26016	24199	24829	25285	26252	27825	24235	20742
-14.0	4813	13348	20873	25669	25547	26241	28160	33270	35418	34706	36696	40246	46005	39937	35702	33161	31266
-15.0	6784	15477	32147	32232	34228	37722	44157	46084	47299	52907	58612	57311	51819	50283	50282	51462	43758
-16.0	9279	18976	38105	41586	47328	58346	57013	61775	69896	79661	71616	67804	67681	71864	60001	52296	48691
-17.0	10289	25669	50486	59462	69205	69454	76965	90823	92201	86192	85087	88473	80264	69641	64564	63233	55001
-18.0	13348	25669	69552	80080	84119	93533	112250	106842	101319	101833	103987	89416	80240	77681	69265	55234	44053
-19.0	15477	34228	90117	97484	110585	135888	121019	116521	121162	112883	99702	86559	69821	58591	54872	45886	38779
-20.0	18976	37722	109598	126851	147765	133511	132980	139979	120917	109147	106647	89894	71978	59350	51966	40212	35983
-21.0	25669	44157	141004	160610	147158	147129	153314	131058	119831	116366	92173	74436	62613	55211	51872	40212	35983
-22.0	34228	58346	173414	156999	162512	160842	139216	129817	118881	95588	77657	66167	60541	58591	54872	40212	35983
-23.0	46084	69205	168892	175475	168892	146928	138295	122131	98520	81155	70255	65871	66326	54842	46086	38703	37539
-24.0	61775	76965	185047	175285	154992	146049	124933	101152	84531	74485	71366	66946	55254	46654	41861	38703	37539
-25.0	90823	92201	180509	161062	154334	128080	104434	88068	78413	76019	67345	56128	47860	43834	41604	38353	30325
-26.0	106842	101319	165830	159849	130328	106574	90666	82379	80810	67966	56878	49405	45861	44577	36138	28617	23699

ALTITUDE= 600.0 ENERGY= 0.500

ELECTRONS

	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	11	3	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	32	11	2	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	92	47	15	2	1	1	1	1	1	1	1	1	1	1	1
-14.0	311	165	72	27	3	1	1	1	1	1	1	1	1	1	1
-15.0	803	518	292	126	51	5	1	1	1	1	1	1	1	1	1
-16.0	2130	1631	1160	822	457	230	80	9	1	1	1	1	1	1	1
-17.0	5328	4464	3464	2783	1967	1209	723	308	134	19	1	1	1	1	1
-18.0	12616	9721	8051	6372	4964	3810	2793	2075	1263	712	383	100	1	1	1
-19.0	18265	16591	14398	13165	11495	9688	7491	5826	4402	3094	2040	1468	870	451	1
-20.0	31871	29078	23780	19883	16863	14121	12260	10337	8746	7400	6248	5208	4111	2911	1971
-21.0	37036	32791	30116	27913	25443	23679	19067	15404	12258	9970	8392	6964	6024	5053	4345
-22.0	45400	45321	35072	28155	22193	18173	15041	12855	11137	9822	8634	7735	6670	6028	5000
-23.0	43697	34883	23673	23911	20716	18435	16512	15026	14043	13129	11824	10819	10013	9056	7942
-24.0	36774	31657	28206	25707	24185	23017	22497	21904	21137	18878	16895	15506	14176	12972	11846
-25.0	36462	34290	33661	33046	29240	25402	22321	20267	18679	17485	16584	14427	13382	12359	11252
-26.0	42636	35557	32998	28597	24682	22321	20267	18679	17485	16584	14427	13382	12359	11252	10285
-27.0	38350	33177	28835	26273	24477	22320	22287	21557	21525	20276	18193	16498	15163	14045	13077
-28.0	34084	30891	29218	28626	28002	24234	23982	17986	16002	14541	13172	12066	11166	10373	9600
-29.0	33973	33438	30317	24712	20920	17997	16033	14286	13142	12214	11556	10982	10329	9643	9066
-30.0	33163	26740	22379	19093	16979	15272	14268	13566	12403	10906	9802	8923	8174	7473	6827
-31.0	24970	20953	18636	16698	15780	13553	11487	10024	8918	7963	7310	6799	6318	5825	5366
-32.0	20534	18476	16512	13753	11506	9943	8770	7957	7403	6860	6460	6054	5590	5179	4766

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A-TITUDE= 600.0 ENERGY= 0.500

ELECTRONS

	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	1212	643	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	3427	2507	1623	536	1	1	1	1	1	1	1	1	1	1	1
-22.0	4237	3532	2701	1740	810	39	1	1	1	1	1	1	1	1	1
-23.0	6698	5700	4406	3334	2066	933	117	1	1	1	1	1	1	1	1
-24.0	10746	9656	8216	6441	4310	2371	815	1	1	1	1	1	1	1	1
-25.0	9180	8297	7086	5748	4280	2828	1527	485	1	1	1	1	1	1	1
-26.0	10996	9842	8306	6973	5546	3908	2546	1277	297	1	1	1	1	1	1
-27.0	12220	11325	10076	8861	7555	6187	4266	2428	882	1	1	1	1	1	1
-28.0	8862	7973	7081	6099	5006	3974	2878	1809	895	1	1	1	1	1	1
-29.0	8327	7686	6908	5929	4921	3977	2940	1992	226	1	1	1	1	1	1
-30.0	6257	5712	5130	4417	3723	3033	2264	1586	1110	365	1	1	1	1	1
-31.0	4961	4511	4059	3561	3005	2448	1903	1356	916	395	36	1	1	1	1
-32.0	4321	3907	3521	3102	2615	2161	1729	1234	822	447	109	165	1	1	1

ORIGINAL PAGE IS
OF POOR QUALITY

M-155

ALTITUDE: 600 KM

ELECTRONS: $E > 1.0$ MEV

INNER ZONE MODEL: AE5 (SOLAR MIN)

FF

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 600.0		ENERGY= 1.000		ELECTRONS											
	-120.0	-118.0	-116.0	-114.0	-112.0	-110.0	-108.0	-106.0	-104.0	-102.0	-100.0	-98.0	-96.0	-94.0	-92.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

M-156

ALTITUDE= 600.0		ENERGY= 1.000		ELECTRONS											
	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	2	1	1	2	3
-6.0	1	2	2	2	2	2	3	3	3	4	5	2	3	5	7
-7.0	2	3	3	4	4	5	5	6	7	8	10	6	8	11	15
-8.0	4	4	5	5	6	9	9	10	12	15	17	13	16	21	27
-9.0	5	5	6	8	9	11	13	15	18	23	27	22	28	35	43
-10.0	5	7	7	10	12	14	18	21	26	32	39	34	42	51	65
-11.0	6	7	9	12	15	19	23	28	35	44	55	67	85	101	125
-12.0	7	8	10	13	17	21	27	35	44	56	71	86	107	126	145
-13.0	7	9	11	14	18	23	30	37	48	62	79	96	119	139	165
-14.0	8	10	13	16	20	26	33	42	55	69	87	107	133	160	188
-15.0	9	11	14	18	23	28	37	47	60	76	97	119	147	177	213
-16.0	10	13	16	20	26	33	41	54	67	86	110	136	169	202	241
-17.0	9	13	17	23	29	36	47	59	78	97	121	156	193	230	272
-18.0	9	12	17	23	32	41	52	68	86	109	137	177	219	270	318
-19.0	7	11	16	23	32	46	61	76	99	126	160	200	248	304	369
-20.0	6	9	14	20	30	42	61	86	113	141	180	234	290	355	428
-21.0	4	7	12	18	27	39	58	80	115	154	210	268	332	420	503
-22.0	3	5	9	15	23	36	52	75	107	145	200	264	337	428	521
-23.0	1	3	6	11	19	28	45	67	94	134	188	242	322	418	517
-24.0	1	1	3	7	13	22	36	55	83	115	164	235	316	419	552
-25.0	1	1	1	4	8	15	26	41	69	112	167	243	330	464	589
-26.0	1	1	1	3	7	15	27	47	75	122	182	268	368	524	701
-27.0	1	1	1	3	8	16	31	55	88	137	207	308	448	611	823
-28.0	1	1	1	4	10	19	35	63	103	162	249	373	547	751	1068
-29.0	1	1	1	4	10	23	43	72	121	194	303	459	683	911	1232
-30.0	1	1	1	4	11	24	47	87	152	237	369	557	804	1124	1533
-31.0	1	1	1	4	13	29	58	110	181	300	447	676	981	1387	1909
-32.0	1	1	1	4	15	36	73	133	238	376	566	861	1265	1882	2586

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 600.0		ENERGY= 1.000		ELECTRONS											
	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	2	3	4
3.0	1	1	1	1	1	1	1	1	1	1	1	1	3	4	7
2.0	1	1	1	1	1	1	1	1	1	3	5	7	10	13	18
1.0	1	1	1	1	1	1	1	3	6	9	12	15	17	23	30
0.0	1	1	1	1	1	2	4	8	11	15	19	23	27	33	40
-1.0	1	1	1	1	3	5	9	14	19	23	27	30	35	41	47
-2.0	1	1	2	4	7	12	17	22	28	34	40	47	53	60	67
-3.0	2	3	5	9	14	21	27	34	40	47	53	60	67	74	81
-4.0	5	8	12	18	25	34	41	50	57	64	72	79	86	93	100
-5.0	11	16	23	31	40	50	61	69	72	83	92	101	110	119	128
-6.0	21	28	38	49	60	73	84	87	87	101	117	134	151	168	185
-7.0	36	46	58	72	84	102	103	102	102	118	144	168	193	218	243
-8.0	55	68	85	101	117	124	121	120	120	146	177	201	226	251	276
-9.0	79	96	117	140	144	145	143	147	146	179	214	240	265	290	315
-10.0	111	138	153	159	163	171	170	175	174	217	252	277	302	327	352
-11.0	149	163	177	185	192	196	201	208	215	260	295	320	345	370	395
-12.0	163	186	198	217	227	232	240	249	258	303	338	363	388	413	438
-13.0	190	213	229	245	268	276	287	310	322	367	402	427	452	477	502
-14.0	213	243	266	288	317	330	357	373	391	446	481	506	531	556	581
-15.0	248	278	309	338	377	394	429	453	487	542	577	602	627	652	677
-16.0	277	317	358	398	447	489	520	563	537	602	637	662	687	712	737
-17.0	321	374	430	484	530	588	644	630	586	662	697	722	747	772	797
-18.0	354	441	514	570	653	723	717	691	678	754	789	814	839	864	889
-19.0	440	519	597	684	767	791	786	796	819	895	930	955	980	1005	1030
-20.0	524	623	728	796	840	860	902	917	977	1106	1214	1307	1390	1473	1556
-21.0	612	694	756	848	902	982	1033	1136	1265	1489	1701	1838	1975	2112	2249
-22.0	618	723	802	902	1022	1162	1269	1459	1765	1935	2144	2353	2562	2771	2980
-23.0	636	752	890	1013	1191	1415	1686	2015	2210	2425	2670	2915	3160	3405	3650
-24.0	691	827	1023	1209	1500	1781	2178	2425	2750	3255	3676	4097	4518	4939	5360
-25.0	774	966	1204	1499	1941	2269	2641	3104	3654	4593	5759	6848	7937	9026	10115
-26.0	931	1172	1532	1973	2323	2739	3336	4086	5096	6570	8393	10323	12253	14183	16113
-27.0	1146	1501	1946	2328	2883	3525	4352	5615	7132	9211	10025	12547	15069	17591	20113
-28.0	1367	1783	2263	2831	3657	4746	6103	7678	9885	10847	13932	18463	22994	27525	32056
-29.0	1629	2199	2809	3708	4839	6502	7857	9486	11634	14898	19912	25586	31259	36932	42605
-30.0	2047	2795	3760	4970	6590	8069	9596	12310	15303	20876	23776	29534	38070	46606	55142
-31.0	2677	3663	5118	6378	8034	10132	13136	16999	21619	25391	31602	40630	51297	62022	72747
-32.0	3632	4820	6172	7802	10366	13644	18598	21853	26013	32593	43161	42046	42371	46238	40778

ALTITUDE= 600.0		ENERGY= 1.000		ELECTRONS											
	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-18.0	-16.0	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2
7.0	1	2	3	3	3	3	3	3	3	3	3	3	3	3	3
6.0	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4
5.0	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
4.0	7	8	8	7	6	5	4	4	3	3	2	2	2	2	2
3.0	11	10	10	9	8	7	6	5	4	3	3	2	2	2	2
2.0	14	13	11	11	9	8	7	6	5	4	3	3	2	2	2
1.0	17	15	14	13	12	11	10	8	7	5	4	3	2	2	2
0.0	20	18	17	16	14	13	12	10	7	6	4	3	2	2	2
-1.0	25	23	21	20	18	16	13	11	8	6	4	3	2	2	2
-2.0	30	28	26	25	22	18	15	11	8	6	4	3	2	2	2
-3.0	36	35	33	31	25	20	15	11	8	6	4	3	2	2	2
-4.0	45	44	41	34	28	22	16	12	8	5	3	2	1	1	1
-5.0	57	55	46	38	29	22	16	11	7	4	2	1	1	1	1
-6.0	72	64	51	41	30	22	15	10	6	3	2	1	1	1	1
-7.0	85	70	55	42	31	21	13	8	4	2	1	1	1	1	1
-8.0	91	74	57	41	29	19	11	8	6	4	2	1	1	1	1
-9.0	101	77	57	40	26	21	18	13	8	4	2	1	1	1	1
-10.0	107	77	56	47	40	34	29	24	18	14	10	6	3	2	2
-11.0	108	87	73	66	62	55	47	40	34	25	18	13	8	5	2
-12.0	129	115	139	101	93	87	82	70	57	48	40	30	21	13	8
-13.0	171	160	155	158	155	142	134	122	112	102	81	65	46	32	20
-14.0	237	241	242	247	235	241	226	226	208	196	160	137	107	87	66
-15.0	337	356	361	368	389	398	407	406	385	372	337	311	281	224	181
-16.0	498	524	551	573	633	663	718	730	707	736	690	672	629	550	439
-17.0	718	752	849	921	1050	1159	1175	1220	1332	1425	1400	1372	1379	1225	1187
-18.0	1016	1149	1296	1517	1675	1815	1996	2225	2514	2695	2717	2750	2745	2752	2824
-19.0	1494	1742	2119	2344	2569	3031	3433	4097	4178	4578	4956	5294	5753	5173	4553
-20.0	2342	2856	3133	3532	4114	5126	5852	6208	7010	8084	9521	8538	7878	7452	7090
-21.0	3609	4035	4708	5581	6890	7844	8729	10451	11996	12190	11343	11276	11407	11669	9829
-22.0	4825	5806	7064	9265	9936	11663	14002	16615	15517	15087	15291	16292	13401	11545	10576
-23.0	7097	8978	11188	12326	14766	18432	19520	18824	19091	20048	17955	15320	13975	13411	11406
-24.0	10572	13144	15187	18212	23042	22882	22319	22956	23454	19769	17405	16508	14326	11132	8677
-25.0	14945	17790	21690	28157	26123	25824	27399	25236	21811	19851	16451	14105	11292	8999	7613
-26.0	20146	25073	30780	28855	29613	31715	26850	23674	22556	18416	14261	11417	9500	8389	7654
-27.0	28036	33631	31956	32867	34650	28903	25786	24353	18614	14516	11830	10138	9276	8837	7716
-28.0	36509	34185	36482	36211	30561	27756	24621	19054	14941	12316	10916	10232	9221	7395	6037
-29.0	36904	39467	37878	32128	29426	25064	19449	15438	12906	11695	11352	8981	7219	6072	5247
-30.0	47.678	39190	33760	30949	25464	19820	15933	13534	12500	11247	8857	7144	6152	5481	5128
-31.0	40233	34974	32509	25930	20312	16465	14120	13176	11120	8832	7185	6303	5747	5097	3901
-32.0	35898	33626	26249	20619	16848	14715	13873	11063	8820	7290	6472	6025	4696	3599	2888

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ALTITUDE=	600.0				ENERGY=				1.000				ELECTRONS											
	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0									
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
-12.0	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
-13.0	10	5	1	1	1	1	1	1	1	1	1	1	1	1	1									
-14.0	41	21	9	3	1	1	1	1	1	1	1	1	1	1	1									
-15.0	121	79	45	20	8	1	1	1	1	1	1	1	1	1	1									
-16.0	371	292	211	155	84	41	14	1	1	1	1	1	1	1	1									
-17.0	1046	889	696	569	405	250	152	64	28	3	1	1	1	1	1									
-18.0	2621	2087	1702	1418	1131	860	632	471	284	159	83	20	1	1	1									
-19.0	4082	3753	3431	2999	2619	2107	1701	1325	1004	707	466	336	198	102	436									
-20.0	7260	6585	5365	4469	3781	3151	2725	2289	1937	1629	1373	1148	904	643	929									
-21.0	8246	7238	6570	6017	5415	4981	3975	3192	2542	2069	1753	1459	1266	1072	1031									
-22.0	9727	9518	7247	5734	4478	3654	3015	2584	2230	1967	1745	1568	1355	1229	1495									
-23.0	6866	6953	5639	4663	4002	3548	3138	2836	2641	2457	2206	2016	1866	1694	1994									
-24.0	7109	6021	5289	4753	4402	4119	3958	3802	3621	3206	2851	2604	2379	2177	1994									
-25.0	6720	6184	5941	5684	4913	4182	3539	3117	2771	2468	2258	2088	1931	1762	1616									
-26.0	7394	6652	5393	4550	3851	3420	3060	2784	2579	2420	2266	2158	2050	1932	1757									
-27.0	6185	5194	4391	3908	3565	3317	3126	2972	2916	2717	2419	2181	1998	1848	1721									
-28.0	5134	4521	4161	3967	3782	3208	2730	2309	2033	1831	1649	1504	1388	1288	1192									
-29.0	4794	4571	3982	3205	2654	2247	1973	1736	1579	1455	1366	1288	1204	1120	1050									
-30.0	4378	3436	2832	2341	2042	1805	1658	1552	1390	1198	1062	956	866	786	717									
-31.0	3121	2551	2216	1942	1793	1490	1227	1048	908	801	724	666	613	562	516									
-32.0	2437	2135	1848	1477	1195	1004	861	764	698	635	589	546	500	460	421									

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ALTITUDE= 600.0		ENERGY= 1.000		ELECTRONS													
	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0		
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
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-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-20.0	271	143	1	1	1	1	1	1	1	1	1	1	1	1	1		
-21.0	732	536	343	113	1	1	1	1	1	1	1	1	1	1	1		
-22.0	882	742	559	381	182	9	1	1	1	1	1	1	1	1	1		
-23.0	1310	1089	859	660	418	194	25	1	1	1	1	1	1	1	1		
-24.0	1818	1643	1408	1115	758	424	149	1	1	1	1	1	1	1	1		
-25.0	1451	1319	1138	937	707	477	265	88	1	1	1	1	1	1	1		
-26.0	1597	1438	1227	1043	838	600	396	203	49	1	1	1	1	1	1		
-27.0	1610	1496	1337	1179	1009	831	577	332	122	1	1	1	1	1	1		
-28.0	1104	995	887	769	640	514	378	239	122	32	1	1	1	1	1		
-29.0	966	892	804	694	580	471	351	240	135	45	1	1	1	1	1		
-30.0	656	599	539	465	393	322	243	172	101	44	4	1	1	1	1		
-31.0	476	432	389	342	289	237	185	133	86	44	10	1	1	1	1		
-32.0	380	343	309	272	230	190	153	110	74	40	15	1	1	1	1		

M-161

ALTITUDE: 600 KM

ELECTRONS: $E > 1.5$ MEV

INNER ZONE MODEL: AE5 (SOLAR MIN)

GG

ORIGINAL PAGE IS
OF POOR QUALITY

	ALTITUDE= 600.0		ENERGY= 1.500		ELECTRONS											
	-120.0	-118.0	-116.0	-114.0	-112.0	-110.0	-108.0	-106.0	-104.0	-102.0	-100.0	-98.0	-96.0	-94.0	-92.0	
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-5.0	1	1	1	1												

ALTITUDE= 600.0		ENERGY= 1.500		ELECTRONS												
	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0	
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
30.0	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-7.0	1	2	2	2	2	2	2	2	3	3	3	4	5	7	9	
-8.0	2	3	3	3	3	3	4	4	5	6	6	8	10	12	15	
-9.0	3	3	4	4	5	5	6	7	8	9	11	13	15	18	23	
-10.0	4	4	5	5	7	8	9	10	12	14	16	19	23	28	33	
-11.0	4	5	6	7	8	10	12	14	16	19	23	27	33	38	47	
-12.0	5	5	6	8	10	11	14	17	21	25	30	35	42	48	55	
-13.0	5	6	7	8	10	13	16	19	23	28	34	40	47	54	62	
-14.0	5	6	8	9	12	14	17	21	26	31	37	44	53	62	71	
-15.0	6	7	9	10	12	15	19	23	28	34	41	49	58	68	79	
-16.0	6	7	9	11	14	17	21	26	31	38	46	55	66	76	88	
-17.0	5	7	9	12	15	18	22	28	34	42	50	61	73	84	97	
-18.0	4	6	9	12	16	20	24	30	37	45	55	68	80	95	109	
-19.0	4	5	8	11	15	21	27	33	41	50	61	75	88	103	120	
-20.0	3	4	6	9	13	18	25	35	44	53	65	81	97	115	133	
-21.0	2	3	5	7	11	16	22	30	42	55	72	88	105	127	146	
-22.0	1	2	3	5	9	13	19	26	36	48	64	81	100	121	142	
-23.0	1	1	2	4	6	10	15	21	30	41	56	69	88	114	142	
-24.0	1	1	1	2	4	7	11	16	24	32	44	64	87	115	152	
-25.0	1	1	1	1	2	4	7	11	19	31	46	67	91	128	162	
-26.0	1	1	1	1	1	4	7	13	21	34	51	74	102	144	192	
-27.0	1	1	1	1	2	4	8	15	25	38	58	85	123	166	222	
-28.0	1	1	1	1	2	5	9	17	28	45	68	101	147	200	281	
-29.0	1	1	1	1	2	6	11	19	32	52	81	121	178	242	336	
-30.0	1	1	1	1	3	6	12	23	39	62	99	152	223	318	443	
-31.0	1	1	1	1	3	8	16	30	51	85	128	195	288	411	573	
-32.0	1	1	1	1	4	10	21	39	70	112	169	261	385	560	805	

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ALTITUDE= 600.0 ENERGY= 1.500

ELECTRONS

	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 600.0		ENERGY= 1.500		ELECTRONS											
	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-18.0	-16.0	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
5.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
4.0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
3.0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
2.0	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1.0	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
0.0	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
-1.0	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
-2.0	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
-3.0	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
-4.0	22	21	19	16	12	9	7	5	4	3	2	1	1	1	1
-5.0	26	25	20	16	12	9	7	5	4	3	2	1	1	1	1
-6.0	30	26	20	16	11	8	6	4	3	2	1	1	1	1	1
-7.0	34	27	20	15	10	6	4	3	2	1	1	1	1	1	1
-8.0	34	26	19	13	8	5	3	2	1	1	1	1	1	1	1
-9.0	34	25	17	11	7	6	5	3	2	1	1	1	1	1	1
-10.0	33	22	15	13	11	9	8	6	5	3	2	1	1	1	1
-11.0	30	24	20	18	17	15	13	11	9	6	4	3	2	1	1
-12.0	35	32	30	28	26	24	22	18	16	13	11	9	6	4	3
-13.0	47	45	43	43	41	37	36	34	32	29	24	19	14	10	6
-14.0	66	66	66	65	62	67	65	67	63	60	49	43	34	27	21
-15.0	92	95	95	100	111	117	123	125	120	118	109	103	93	74	59
-16.0	133	138	153	165	190	203	223	232	231	242	230	224	210	184	149
-17.0	192	210	249	278	324	364	380	400	445	475	470	463	477	435	422
-18.0	288	340	393	473	533	590	663	742	843	913	946	982	987	1004	1033
-19.0	442	534	603	752	844	1010	1151	1370	1440	1630	1780	1931	2105	1949	1762
-20.0	721	897	1012	1166	1367	1717	1996	2184	2522	2944	3484	3222	3071	2936	2849
-21.0	1139	1310	1555	1865	2305	2699	3153	3766	4384	4582	4378	4479	4589	4725	4029
-22.0	1570	1918	2361	3109	3458	4174	5090	6122	5927	5949	6136	6597	5503	4810	4419
-23.0	2353	3001	3783	4318	5288	6722	7307	7286	7606	8094	7347	6348	5853	5618	4742
-24.0	3530	4464	5350	6543	8420	8672	8724	9207	9535	8147	7251	6919	5946	4551	3500
-25.0	5101	6288	7938	10305	9955	10165	11044	10320	9034	8299	7692	5774	4546	3574	2990
-26.0	7110	9078	11330	11052	11723	12828	11023	9838	9442	7602	5772	4543	3724	3244	2918
-27.0	10165	12447	12335	13060	14059	11908	10742	10179	7620	5822	4659	3929	3537	3310	2853
-28.0	13583	13203	14564	14726	12618	11583	10223	7741	5946	4809	4186	3853	3415	2713	2198
-29.0	14309	15809	15438	13287	12294	10356	7857	6104	5003	4445	4226	3305	2631	2194	1881
-30.0	16725	16000	13983	12941	10479	7972	6266	5213	4715	4164	3242	2589	2211	1947	1801
-31.0	16453	14503	13604	10829	8135	6445	5410	4940	4100	3218	2591	2249	2025	1765	1322
-32.0	14904	14080	13720	8233	6572	5612	5173	4064	3202	2617	2256	2107	1602	1202	945

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ALTITUDE= 600.0 ENERGY= 1.500

ELECTRONS

	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	13	7	3	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	40	26	15	6	2	1	1	1	1	1	1	1	1	1	1
-16.0	128	101	74	54	29	14	5	1	1	1	1	1	1	1	1
-17.0	379	321	252	207	147	91	56	23	10	1	1	1	1	1	1
-18.0	962	786	678	555	440	341	250	185	111	63	32	17	1	1	1
-19.0	1609	1498	1368	1209	1060	889	693	545	414	293	193	138	81	41	1
-20.0	2935	2675	2214	1863	1588	1329	1149	969	821	690	582	487	383	273	184
-21.0	3426	3036	2765	2532	2276	2087	1658	1326	1057	861	732	610	531	450	393
-22.0	4086	3987	3000	2358	1832	1492	1229	954	909	801	713	643	556	506	426
-23.0	3638	2825	2273	1871	1597	1410	1240	1116	1037	963	863	788	729	663	588
-24.0	2837	2381	2074	1849	1697	1573	1496	1426	1349	1191	1058	966	883	809	742
-25.0	2608	2373	2249	2122	1820	1545	1305	1147	1022	910	831	768	713	653	600
-26.0	2773	2465	1987	1669	1408	1246	1115	1009	932	875	817	777	737	695	633
-27.0	2271	1895	1595	1411	1283	1185	1110	1048	1021	946	837	752	687	635	592
-28.0	1858	1624	1485	1401	1322	1158	931	781	683	612	548	499	459	426	394
-29.0	1702	1606	1377	1092	891	746	650	567	512	469	438	411	383	356	333
-30.0	1509	1164	932	769	662	580	527	488	429	360	314	279	248	223	202
-31.0	1038	834	714	617	562	449	356	296	248	215	191	173	158	143	131
-32.0	785	676	570	432	335	272	225	195	174	156	142	130	116	105	95

ALTITUDE= 600.0		ENERGY= 1.500		ELECTRONS													
	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0		
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-20.0	114	59	1	1	1	1	1	1	1	1	1	1	1	1	1		
-21.0	309	226	144	47	1	1	1	1	1	1	1	1	1	1	1		
-22.0	367	311	239	163	78	4	1	1	1	1	1	1	1	1	1		
-23.0	517	432	343	267	170	80	10	1	1	1	1	1	1	1	1		
-24.0	676	611	524	417	286	162	57	1	1	1	1	1	1	1	1		
-25.0	540	492	424	353	268	183	102	34	1	1	1	1	1	1	1		
-26.0	577	521	447	382	309	222	148	76	18	1	1	1	1	1	1		
-27.0	554	515	462	408	350	289	202	117	43	1	1	1	1	1	1		
-28.0	365	330	295	256	215	173	128	82	42	11	1	1	1	1	1		
-29.0	306	283	256	221	185	151	113	77	44	14	1	1	1	1	1		
-30.0	185	169	151	130	111	91	69	49	29	13	1	1	1	1	1		
-31.0	120	109	98	86	73	60	47	34	22	11	1	1	1	1	1		
-32.0	84	75	68	60	50	41	33	24	16	8	3	1	1	1	1		

M-167

ALTITUDE: 600 KM

ELECTRONS: $E > 2.0$ MEV

INNER ZONE MODEL: AE5 (SOLAR MIN)

HH

ALTITUDE= 600.0		ENERGY= 2.000		ELECTRONS											
	-120.0	-118.0	-116.0	-114.0	-112.0	-110.0	-108.0	-106.0	-104.0	-102.0	-100.0	-98.0	-96.0	-94.0	-92.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2
-12.0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	3
-13.0	1	1	1	1	1	1	1	1	1	1	2	2	2	3	3
-14.0	1	1	1	1	1	1	1	1	1	1	1	2	2	3	3
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	2	3	4
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	2	3	3
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

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	ALTITUDE= 600.0		ENERGY= 2.000		ELECTRONS											
	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0	
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-8.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
-9.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
-10.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
-11.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
-12.0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
-13.0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
-14.0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
-15.0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
-16.0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
-17.0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
-18.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
-19.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

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ALTITUDE= 600.0		ENERGY= 2.000		ELECTRONS											
	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2
0.0	1	1	1	1	1	1	1	1	1	2	2	3	4	5	5
-1.0	1	1	1	1	1	1	1	1	2	4	5	6	7	8	8
-2.0	1	1	1	1	1	1	3	3	4	6	8	10	10	10	10
-3.0	1	1	1	1	1	2	5	8	10	13	14	16	16	17	17
-4.0	1	1	1	1	2	4	9	12	15	16	16	16	16	16	15
-5.0	1	2	3	3	7	10	13	17	18	19	19	18	18	18	17
-6.0	3	4	6	5	9	12	19	21	22	22	22	21	21	20	19
-7.0	6	8	10	9	17	22	24	25	25	26	25	25	24	23	22
-8.0	10	12	16	14	25	30	32	33	34	33	33	32	31	30	29
-9.0	15	19	23	20	30	34	37	38	38	38	37	36	36	35	34
-10.0	22	27	31	29	34	40	41	42	43	44	42	42	41	40	39
-11.0	30	33	36	33	38	44	46	47	48	49	47	46	45	44	43
-12.0	34	38	40	38	44	50	52	53	54	55	52	50	49	48	47
-13.0	39	43	46	44	48	55	58	59	60	61	58	56	55	54	53
-14.0	43	48	51	50	52	60	62	63	64	65	62	60	59	58	57
-15.0	49	53	57	55	58	66	68	69	70	71	68	66	65	64	63
-16.0	53	58	63	61	65	72	75	76	77	78	75	73	72	71	70
-17.0	58	65	71	67	72	78	82	83	84	85	82	80	79	78	77
-18.0	65	71	78	75	78	85	90	91	92	93	90	88	87	86	85
-19.0	69	77	83	80	87	96	99	100	101	102	100	98	97	96	95
-20.0	75	83	91	88	96	100	100	100	100	100	100	99	98	97	96
-21.0	79	87	95	92	100	105	113	114	115	116	115	114	113	112	111
-22.0	78	91	100	96	106	113	122	128	139	152	163	177	187	197	206
-23.0	80	94	111	106	113	127	143	154	174	197	224	257	297	341	388
-24.0	87	103	127	126	126	146	171	198	229	269	311	366	435	518	615
-25.0	96	119	146	147	147	178	208	247	288	340	418	523	682	837	1026
-26.0	113	140	179	178	178	223	261	317	387	472	606	774	1049	1421	1895
-27.0	135	172	225	223	223	272	333	421	531	675	885	1290	1852	2640	3515
-28.0	159	211	277	278	278	356	450	570	748	1049	1579	2059	2749	3874	5056
-29.0	199	276	359	357	357	473	625	817	1049	1579	2207	2971	3479	4296	5277
-30.0	263	365	498	483	483	643	893	1135	1382	1802	2421	3134	4034	5505	7277
-31.0	354	489	639	666	666	893	1144	1472	1934	2530	3267	3944	4968	6650	8805
-32.0	489	665	872	1121	1121	1518	2025	2769	3332	4059	5134	6830	8997	12005	16336

ALTITUDE= 600.0		ENERGY= 2.000				ELECTRONS									
	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-18.0	-16.0	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	2	2	2	2	2	2	2	2	2	1	1	1	1
5.0	2	2	3	3	3	3	2	2	2	2	2	2	1	1	1
4.0	3	4	4	4	3	3	3	3	3	2	2	2	1	1	1
3.0	4	5	4	4	4	4	3	3	3	2	2	2	1	1	1
2.0	6	6	5	5	5	4	4	3	3	2	2	2	1	1	1
1.0	7	7	6	6	5	5	4	4	3	2	2	2	1	1	1
0.0	8	7	7	7	6	6	5	4	3	2	2	2	1	1	1
-1.0	9	9	8	8	7	6	5	4	3	2	2	1	1	1	1
-2.0	11	10	9	9	8	6	5	3	2	2	1	1	1	1	1
-3.0	12	12	11	10	8	6	4	3	2	1	1	1	1	1	1
-4.0	14	13	12	10	7	5	3	2	1	1	1	1	1	1	1
-5.0	16	15	12	9	5	3	2	1	1	1	1	1	1	1	1
-6.0	18	15	12	8	6	4	2	1	1	1	1	1	1	1	1
-7.0	19	15	11	8	5	3	2	1	1	1	1	1	1	1	1
-8.0	18	14	10	6	4	2	1	1	1	1	1	1	1	1	1
-9.0	17	12	8	5	3	2	2	1	1	1	1	1	1	1	1
-10.0	16	10	7	6	5	4	3	3	2	1	1	1	1	1	1
-11.0	14	11	9	8	8	7	6	4	4	2	2	1	1	1	1
-12.0	16	15	14	13	11	10	9	8	6	5	4	3	2	1	1
-13.0	22	20	19	19	18	16	15	14	14	13	10	8	6	4	2
-14.0	30	30	29	28	27	29	28	29	27	25	21	18	14	12	9
-15.0	41	42	41	43	48	51	53	54	51	51	47	45	41	32	26
-16.0	58	59	67	72	83	88	96	100	101	107	102	100	93	81	66
-17.0	83	92	109	121	140	156	166	176	199	212	209	206	212	195	187
-18.0	126	149	171	204	230	258	295	330	376	407	421	438	436	441	451
-19.0	193	232	285	326	372	448	514	610	641	726	785	847	912	856	785
-20.0	312	365	441	516	608	765	890	973	1114	1292	1506	1415	1373	1315	1287
-21.0	488	574	687	832	1026	1201	1379	1655	1906	2010	1944	2014	2070	2126	1841
-22.0	689	849	1053	1384	1537	1847	2229	2655	2617	2658	2757	2969	2522	2242	2072
-23.0	1045	1335	1682	1919	2329	2928	3194	3238	3419	3642	3352	2944	2751	2648	2224
-24.0	1571	1985	2374	2674	3652	3816	3888	4143	4313	3753	3388	3262	2786	2108	1606
-25.0	2268	2782	3440	4454	4386	4541	4970	4706	4190	3897	3616	2677	2081	1621	1345
-26.0	3141	3976	4911	4881	5246	5772	5053	4584	4448	3547	2653	2062	1671	1442	1282
-27.0	4445	5409	5445	5852	6344	5485	5024	4795	3532	2657	2098	1747	1554	1433	1206
-28.0	5918	5850	6532	6666	5829	5432	4795	3567	2697	2151	1847	1675	1450	1114	879
-29.0	6350	7103	7010	6152	5776	4835	3605	2755	2225	1947	1820	1376	1057	857	716
-30.0	7517	7262	6489	6089	4877	3645	2817	2307	2053	1769	1328	1023	846	727	656
-31.0	7505	6742	6410	4932	3707	2887	2384	2140	1718	1300	1009	848	743	619	428
-32.0	6940	6641	4961	3743	2936	2464	2231	1684	1277	1006	855	763	532	370	259

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ALTITUDE= 600.0		ENERGY= 2.000		ELECTRONS											
	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	5	3	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	17	11	6	2	1	1	1	1	1	1	1	1	1	1	1
-16.0	57	45	32	23	12	6	2	1	1	1	1	1	1	1	1
-17.0	168	141	110	90	64	39	24	10	4	1	1	1	1	1	1
-18.0	416	346	300	249	196	154	112	82	49	28	14	2	1	1	1
-19.0	723	673	619	544	478	400	314	250	189	135	89	63	37	19	1
-20.0	1324	1208	1017	867	742	628	540	460	390	326	276	231	181	130	87
-21.0	1586	1424	1306	1194	1076	985	780	623	497	405	346	289	252	214	188
-22.0	1928	1881	1405	1098	851	693	570	488	422	372	331	301	260	237	200
-23.0	1691	1303	1044	856	728	641	562	504	467	433	387	353	327	298	265
-24.0	1292	1077	933	826	753	692	653	618	581	510	450	409	374	342	314
-25.0	1162	1048	953	916	773	644	527	467	411	364	332	306	283	259	239
-26.0	1202	1047	825	677	563	491	433	389	356	332	309	293	277	261	238
-27.0	933	761	627	544	487	444	411	384	370	338	292	258	234	215	200
-28.0	724	620	555	515	478	384	308	249	212	183	162	146	133	123	112
-29.0	634	585	480	360	277	223	186	158	139	125	115	107	99	91	85
-30.0	520	376	281	221	182	154	136	123	106	87	75	66	58	52	47
-31.0	312	236	192	160	141	109	84	69	57	48	43	38	35	31	29
-32.0	211	173	141	103	78	61	50	43	37	33	30	27	25	22	20

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	ALTITUDE= 600.0		ENERGY= 2.000		ELECTRONS											
	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-20.0	53	27	1	1	1	1	1	1	1	1	1	1	1	1	1	
-21.0	148	108	68	22	1	1	1	1	1	1	1	1	1	1	1	
-22.0	173	148	113	79	38	1	1	1	1	1	1	1	1	1	1	
-23.0	234	196	157	123	79	37	5	1	1	1	1	1	1	1	1	
-24.0	288	262	226	180	124	71	25	1	1	1	1	1	1	1	1	
-25.0	216	197	171	144	110	76	43	14	1	1	1	1	1	1	1	
-26.0	218	197	170	146	119	86	58	30	1	1	1	1	1	1	1	
-27.0	188	175	159	141	123	103	73	42	15	1	1	1	1	1	1	
-28.0	104	94	85	74	62	51	38	24	12	3	1	1	1	1	1	
-29.0	78	72	65	57	48	39	29	20	11	3	1	1	1	1	1	
-30.0	43	39	35	30	26	21	16	11	7	3	1	1	1	1	1	
-31.0	26	24	21	19	16	13	10	7	5	2	1	1	1	1	1	
-32.0	18	16	15	13	11	9	7	5	3	2	1	1	1	1	1	

ALTITUDE: 600 KM

ELECTRONS: $E > 3.0$ MEV

INNER ZONE MODEL: AE5 (SOLAR MIN)

II

A. TITUDE= 600.0		ENERGY= 3.000		ELECTRONS											
	-120.0	-118.0	-116.0	-114.0	-112.0	-110.0	-108.0	-106.0	-104.0	-102.0	-100.0	-98.0	-96.0	-94.0	-92.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

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ALTITUDE= 600.0		ENERGY= 3.000		ELECTRONS											
	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-12.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-13.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-14.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-15.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-16.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-17.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-18.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-19.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-20.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-21.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-22.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-23.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-24.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-25.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-26.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-27.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-28.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-29.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-30.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-31.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-32.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

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	ALTITUDE= 600.0		ENERGY= 3.000		ELECTRONS											
	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0	
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
24.0	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	
0.0	1	1	1	1	1	1	1	1	1	1	1	2	2	3	3	
-1.0	1	1	1	1	1	1	1	1	1	1	2	3	3	3	3	
-2.0	1	1	1	1	1	1	1	1	1	2	3	3	3	3	3	
-3.0	1	1	1	1	1	1	1	1	2	3	3	4	4	4	4	
-4.0	1	1	1	1	1	1	1	2	3	4	4	4	4	4	4	
-5.0	1	1	1	1	1	1	2	3	4	4	5	5	5	5	4	
-6.0	1	1	1	1	2	3	4	4	5	5	5	5	5	5	4	
-7.0	1	1	1	2	3	4	5	5	5	5	5	5	5	5	4	
-8.0	1	2	3	4	5	6	6	6	7	6	6	6	5	4	3	
-9.0	2	3	4	5	6	7	7	7	8	7	7	6	5	3	2	
-10.0	3	4	5	6	7	8	8	8	8	7	7	6	5	3	2	
-11.0	5	6	7	8	9	10	10	10	10	9	8	7	6	4	3	
-12.0	6	7	8	9	10	11	11	11	11	10	9	8	7	5	4	
-13.0	7	8	9	10	11	12	12	12	12	11	10	9	8	6	5	
-14.0	7	8	9	10	11	12	12	12	12	11	10	9	8	6	5	
-15.0	8	9	10	11	12	13	13	13	13	12	11	10	9	7	6	
-16.0	8	9	10	11	12	13	13	13	13	12	11	10	9	7	6	
-17.0	8	9	10	11	12	13	13	13	13	12	11	10	9	7	6	
-18.0	9	10	11	12	13	14	14	14	14	13	12	11	10	8	7	
-19.0	9	10	11	12	13	14	14	14	14	13	12	11	10	8	7	
-20.0	9	10	11	12	13	14	14	14	14	13	12	11	10	8	7	
-21.0	8	9	10	11	12	13	14	15	16	16	16	15	14	11	10	
-22.0	8	10	11	12	13	14	15	16	17	18	18	17	16	13	12	
-23.0	9	11	12	13	14	15	16	17	18	20	22	22	21	17	16	
-24.0	10	12	13	14	15	16	17	18	20	23	26	28	27	21	20	
-25.0	11	14	15	16	17	18	19	20	22	25	29	32	31	24	23	
-26.0	13	16	17	18	19	20	21	22	24	27	31	35	34	27	26	
-27.0	16	20	21	22	23	24	25	26	28	31	35	39	38	31	30	
-28.0	18	25	26	27	28	29	30	31	33	36	40	44	43	35	34	
-29.0	24	34	35	36	37	38	39	40	42	45	49	53	52	43	42	
-30.0	33	46	47	48	49	50	51	52	54	57	61	65	64	55	54	
-31.0	45	62	63	64	65	66	67	68	70	73	77	81	80	71	70	
-32.0	61	82	83	84	85	86	87	88	90	93	97	101	100	91	90	

ALTITUDE= 600.C		ENERGY= 3.000		ELECTRONS											
	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-18.0	-16.0	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
0.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
-1.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
-2.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
-3.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
-4.0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
-5.0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
-6.0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
-7.0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
-8.0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
-9.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-10.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-14.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
-15.0	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
-16.0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
-17.0	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
-18.0	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
-19.0	24	29	36	40	44	50	55	61	62	68	69	71	72	73	74
-20.0	39	48	54	60	67	79	87	91	100	109	119	122	125	126	127
-21.0	61	69	79	91	104	116	127	143	154	158	152	154	154	154	154
-22.0	83	97	113	138	146	166	188	209	205	204	206	206	206	206	206
-23.0	118	141	166	181	205	240	251	251	259	265	237	231	215	215	215
-24.0	164	194	220	249	293	298	298	308	308	262	232	232	215	215	215
-25.0	221	255	295	351	341	345	363	333	308	260	232	232	215	215	215
-26.0	285	337	387	437	395	416	354	311	291	224	164	164	168	168	168
-27.0	373	425	420	437	454	381	337	309	220	162	125	125	125	125	125
-28.0	464	450	484	475	402	361	306	220	162	127	106	106	102	102	102
-29.0	486	524	497	422	381	306	220	164	129	109	97	97	77	77	77
-30.0	552	514	443	399	306	222	166	133	113	93	68	68	54	54	54
-31.0	528	458	417	308	224	169	136	117	90	66	50	50	42	42	42
-32.0	469	433	338	225	171	139	120	87	64	49	41	35	24	24	24

ORIGINAL PAGE IS
OF POOR QUALITY

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	ALTITUDE= 600.0		ENERGY= 3.000			ELECTRONS										
	0.0	2.0	4.0	5.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-16.0	5	4	3	2	1	1	1	1	1	1	1	1	1	1	1	
-17.0	14	12	9	7	5	3	1	1	1	1	1	1	1	1	1	
-18.0	32	27	23	19	15	11	8	6	3	2	1	1	1	1	1	
-19.0	56	52	47	40	35	28	22	18	13	9	6	4	2	1	1	
-20.0	97	86	73	62	53	45	38	32	27	22	19	16	12	8	6	
-21.0	112	99	90	80	71	63	50	40	33	27	23	20	17	13	13	
-22.0	128	121	90	70	55	45	38	32	28	25	22	20	18	16	14	
-23.0	107	82	66	54	46	40	35	31	29	26	23	21	20	18	16	
-24.0	80	66	57	49	44	39	36	34	31	27	24	22	20	18	17	
-25.0	69	61	55	49	41	34	28	24	22	19	17	16	15	14	13	
-26.0	66	55	43	35	29	25	22	20	18	16	15	14	14	13	12	
-27.0	48	39	32	27	24	21	19	18	17	15	13	12	11	10	9	
-28.0	36	31	27	24	22	17	14	11	10	9	8	7	6	6	5	
-29.0	30	27	22	16	13	10	9	7	6	6	5	5	4	4	4	
-30.0	24	17	13	10	9	7	6	6	5	4	3	3	2	2	2	
-31.0	14	11	9	7	6	5	4	3	2	2	2	1	1	1	1	
-32.0	10	8	6	4	3	2	2	1	1	1	1	1	1	1	1	

ALTITUDE= 600.0 ENERGY= 3.000

ELECTRONS

	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	10	7	4	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	10	10	8	5	1	1	1	1	1	1	1	1	1	1	1
-23.0	14	12	10	8	5	1	1	1	1	1	1	1	1	1	1
-24.0	14	12	10	8	5	1	1	1	1	1	1	1	1	1	1
-25.0	12	11	9	7	5	4	1	1	1	1	1	1	1	1	1
-26.0	11	10	8	7	6	4	1	1	1	1	1	1	1	1	1
-27.0	8	8	7	7	6	4	1	1	1	1	1	1	1	1	1
-28.0	5	4	3	3	3	2	1	1	1	1	1	1	1	1	1
-29.0	3	3	3	3	3	2	1	1	1	1	1	1	1	1	1
-30.0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

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ALTITUDE: 600 KM

ELECTRONS: $E > 4.0$ MEV

INNER ZONE MODEL: AE5 (SOLAR MIN)

JJ

ALTITUDE= 600.0		ENERGY= 4.000		ELECTRONS											
	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-32.0	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2

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ALTITUDE= 600.0		ENERGY= 4.000		ELECTRONS											
	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-18.0	-16.0	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-26.0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-27.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
-28.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
-29.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
-30.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
-31.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
-32.0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

M-181

ALTITUDE: 600 KM

PROTONS: $E > 1$. MEV

TRAPPED PROTON MODEL: AP8 (SOLAR MIN)

KK

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 600.0		ENERGY= 1.000				PROTONS									
	-120.0	-118.0	-116.0	-114.0	-112.0	-110.0	-108.0	-106.0	-104.0	-102.0	-100.0	-98.0	-96.0	-94.0	-92.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	9
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

ALTITUDE= 600.0		ENERGY= 1.000		PROTONS												
	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0	
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	4	8	
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	12	20	
-3.0	1	1	1	1	1	1	1	1	1	1	1	6	15	26	37	
-4.0	1	1	1	1	1	1	1	1	1	1	15	37	36	55	86	
-5.0	1	1	1	1	1	1	1	1	1	4	23	50	98	121	167	
-6.0	1	1	1	1	1	1	1	1	1	11	37	73	131	189	261	
-7.0	1	1	1	1	3	6	6	7	7	26	66	123	193	273	356	
-8.0	1	1	2	6	9	27	36	50	74	117	169	230	305	416	512	
-9.0	1	1	5	11	17	38	67	96	152	225	318	383	463	566	676	
-10.0	1	2	10	21	25	53	107	143	204	304	417	548	628	730	855	
-11.0	2	4	7	14	25	61	161	216	292	387	536	702	836	944	1043	
-12.0	3	7	14	21	37	70	118	219	284	361	476	635	809	993	1100	
-13.0	4	9	14	21	37	70	118	219	284	361	476	635	809	993	1100	
-14.0	6	14	21	37	70	118	219	284	361	476	635	809	993	1100	1203	
-15.0	8	21	37	70	118	219	284	361	476	635	809	993	1100	1203	1373	
-16.0	10	28	61	111	200	339	430	561	708	893	1126	1373	1594	1792	1948	
-17.0	13	31	67	142	251	339	457	610	769	957	1231	1475	1621	1782	1913	
-18.0	21	46	96	158	245	354	489	655	853	1089	1365	1518	1673	1829	2002	
-19.0	26	51	98	155	244	365	518	711	956	1195	1361	1521	1727	1898	2060	
-20.0	13	42	95	160	262	400	597	836	1014	1195	1368	1550	1740	1948	2131	
-21.0	1	15	71	164	289	447	622	794	984	1185	1387	1594	1792	2040	2274	
-22.0	1	2	29	111	252	399	553	753	958	1152	1391	1626	1906	2144	2407	
-23.0	1	7	32	99	194	344	541	728	938	1176	1471	1764	2056	2241	2416	
-24.0	2	17	47	110	210	363	551	756	1028	1310	1595	1787	1980	2154	2324	
-25.0	7	31	82	162	291	490	684	936	1129	1314	1515	1712	1906	2085	2255	
-26.0	9	30	74	151	260	409	592	824	995	1194	1388	1591	1790	1975	2184	
-27.0	8	26	56	101	175	267	433	621	811	1037	1300	1505	1687	1899	2116	
-28.0	9	27	53	91	144	231	343	499	672	861	1084	1305	1544	1776	2012	
-29.0	8	29	54	89	145	213	310	435	595	789	994	1189	1427	1686	1987	
-30.0	6	27	38	100	157	222	315	435	573	752	966	1207	1475	1768	2138	
-31.0	4	24	61	111	172	258	356	479	618	821	1053	1320	1628	1971	2413	
-32.0	2	17	61	118	197	295	416	559	766	967	1240	1580	1969	2405	2972	

ORIGINAL PAGE IS
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ALTITUDE= 600.0		ENERGY= 1.000		PROTONS											
	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
3.0	1	1	1	1	2	2	2	1	1	1	1	1	4	15	8
2.0	1	3	4	6	9	12	9	5	1	1	1	10	27	28	19
1.0	5	10	14	17	25	27	19	11	9	32	18	46	55	51	42
0.0	15	21	28	41	58	44	33	31	53	114	129	147	158	149	133
-1.0	28	42	62	101	77	69	71	97	184	194	202	224	240	226	202
-2.0	56	86	146	124	120	117	155	248	277	277	298	322	339	350	316
-3.0	131	180	172	180	187	214	320	394	385	390	415	425	438	430	416
-4.0	190	223	242	251	298	383	467	533	521	530	524	550	543	525	494
-5.0	246	285	319	379	450	537	646	665	661	663	659	676	662	636	582
-6.0	308	384	462	526	642	731	844	825	811	832	815	808	779	731	700
-7.0	449	525	608	716	815	935	1018	994	1015	997	986	964	957	897	866
-8.0	604	712	800	914	1022	1098	1195	1199	1208	1203	1191	1191	1143	1076	982
-9.0	788	886	1037	1099	1193	1282	1362	1427	1442	1429	1377	1315	1233	1135	1026
-10.0	1095	1186	1386	1292	1386	1468	1532	1560	1560	1530	1481	1397	1306	1208	1125
-11.0	1334	1448	1553	1659	1726	1796	1824	1826	1792	1733	1663	1618	1547	1530	1535
-12.0	1506	1620	1741	1825	1882	1942	1946	1915	1871	1862	1788	1782	1807	1697	1539
-13.0	1659	1782	1898	1973	2021	2060	2046	2055	2017	2010	1995	2054	1885	1714	1530
-14.0	1810	1942	2053	2156	2223	2291	2349	2377	2466	2380	2216	2086	1916	1748	1542
-15.0	2042	2166	2274	2365	2414	2486	2556	2590	2515	2378	2228	2115	1944	1783	1571
-16.0	2115	2263	2401	2488	2606	2702	2694	2645	2537	2404	2297	2146	2026	1788	1716
-17.0	2213	2373	2513	2712	2768	2777	2757	2662	2556	2473	2302	2199	2040	1922	1973
-18.0	2339	2526	2716	2798	2790	2821	2749	2675	2596	2492	2412	2247	2179	2254	2373
-19.0	2530	2665	2743	2823	2828	2810	2771	2712	2654	2560	2485	2397	2503	2719	3075
-20.0	2570	2685	2755	2815	2801	2802	2793	2767	2708	2645	2604	2734	3018	3505	3908
-21.0	2533	2620	2700	2764	2821	2856	2827	2824	2816	2822	3018	3313	3874	4153	3733
-22.0	2458	2588	2706	2765	2828	2881	2939	2915	3008	3199	3663	4224	4379	3989	3690
-23.0	2428	2558	2676	2768	2843	2960	2996	3114	3403	3868	4547	4567	4211	3923	3720
-24.0	2353	2518	2673	2817	2898	3053	3268	3607	4198	4911	4744	4392	4125	3958	4012
-25.0	2301	2508	2674	2838	3023	3352	3806	4427	5170	4842	4546	4330	4205	4236	4458
-26.0	2199	2431	2669	2904	3402	3929	4653	5106	4878	4603	4469	4346	4418	4716	5142
-27.0	2266	2563	2959	3439	4079	4672	5026	4856	4654	4510	4522	4616	4999	5507	5547
-28.0	2487	2937	3463	4164	4901	4776	4719	4583	4551	4602	4795	5187	5710	5714	5154
-29.0	2926	3519	4317	4519	4543	4451	4468	4522	4637	4875	5354	5997	5787	5285	4880
-30.0	3749	3935	4062	4119	4152	4283	4376	4582	4969	5473	6175	5811	5310	4972	4576

ALTITUDE= 600.0		ENERGY= 1.000		PROTONS															
	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-18.0	-16.0	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0				
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	6	5	5	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	15	14	12	8	5	3	2	2	1	1	1	1	1	1	1	1	1	1	1
2.0	38	33	24	16	11	7	5	2	1	1	1	1	1	1	1	1	1	1	1
1.0	78	64	48	36	25	18	11	6	3	1	1	1	1	1	1	1	1	1	1
0.0	124	109	94	77	56	33	19	10	6	2	1	1	1	1	1	1	1	1	1
-1.0	192	167	136	111	84	60	40	24	16	9	3	1	1	1	1	1	1	1	1
-2.0	295	247	209	177	139	109	79	52	33	17	4	1	1	1	1	1	1	1	1
-3.0	382	332	276	225	174	132	96	65	29	7	1	1	1	1	1	1	1	1	1
-4.0	445	380	335	271	220	172	128	65	14	1	1	1	1	1	1	1	1	1	1
-5.0	528	476	422	366	258	252	128	57	28	14	6	1	1	1	1	1	1	1	1
-6.0	650	635	551	459	344	228	154	97	72	49	34	17	8	2	1	1	1	1	1
-7.0	847	713	589	467	361	286	241	210	168	134	86	48	25	13	5	1	1	1	1
-8.0	865	751	637	530	468	460	440	317	202	133	83	56	36	24	14	1	1	1	1
-9.0	911	817	741	720	759	587	400	281	188	140	102	77	57	43	28	1	1	1	1
-10.0	1042	1012	1329	884	706	499	364	274	207	156	137	114	92	68	50	1	1	1	1
-11.0	1273	1208	1024	834	629	474	369	299	257	231	196	171	149	117	88	1	1	1	1
-12.0	1366	1186	1010	779	605	491	425	388	358	325	303	268	234	190	154	1	1	1	1
-13.0	1356	1205	941	774	647	577	536	520	508	489	471	435	383	331	265	1	1	1	1
-14.0	1357	1136	946	819	746	732	723	748	754	739	720	685	510	386	306	1	1	1	1
-15.0	1326	1135	1022	946	949	985	1029	1114	1132	1045	848	670	544	457	360	1	1	1	1
-16.0	1360	1232	1177	1199	1284	1402	1557	1509	1248	1049	870	746	656	554	464	1	1	1	1
-17.0	1450	1432	1493	1562	1766	2065	1743	1498	1262	1120	1003	914	849	733	632	1	1	1	1
-18.0	1707	1769	1984	2262	2366	1993	1736	1535	1391	1291	1241	1199	1079	1000	845	1	1	1	1
-19.0	2053	2335	2724	2626	2254	2017	1812	1691	1656	1607	1642	1589	1487	1131	861	1	1	1	1
-20.0	2678	3237	2905	2536	2302	2135	2061	2037	2051	2142	2222	1707	1328	1037	878	1	1	1	1
-21.0	3635	3154	2852	2665	2467	2402	2451	2545	2720	2439	1898	1532	1282	1127	993	1	1	1	1
-22.0	3434	3165	2872	2776	2781	2870	3073	3232	2654	2149	1795	1565	1440	1338	1277	1	1	1	1
-23.0	3444	3182	3097	3136	3266	3540	3505	2948	2405	2088	1871	1762	1717	1700	1471	1	1	1	1
-24.0	3480	3451	3479	3673	4126	3742	3209	2677	2385	2183	2136	2140	2000	1697	1458	1	1	1	1
-25.0	3707	3313	4084	4662	4009	3494	2998	2692	2526	2561	2523	2193	1887	1670	1471	1	1	1	1
-26.0	4172	4455	4892	4286	3790	3264	3005	2881	2937	2728	2408	2103	1891	1711	1595	1	1	1	1
-27.0	4849	5142	4548	4109	3556	3290	3238	3315	2926	2638	2328	2153	2001	1892	1740	1	1	1	1
-28.0	5373	4791	4328	3797	3549	3563	3544	3161	2848	2574	2420	2310	2167	1930	1765	1	1	1	1
-29.0	4974	4581	4060	3840	3904	3716	3364	3063	2803	2710	2585	2359	2155	2003	1899	1	1	1	1
-30.0	4723	4263	4095	4167	3929	3566	3265	3033	2970	2800	2572	2358	2227	2148	2117	1	1	1	1
-31.0	4448	4299	4431	4115	3738	3470	3285	3220	2998	2770	2587	2458	2417	2328	2184	1	1	1	1
-32.0	4467	4637	4431	3916	3663	3456	3447	3181	2965	2797	2674	2678	2526	2417	2351	1	1	1	1

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	ALTITUDE= 600.0				ENERGY= 1.000				PROTONS									
	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	16	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	33	19	7	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	64	37	18	7	2	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	116	72	39	17	6	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	185	112	62	33	18	7	3	1	1	1	1	1	1	1	1	1	1	1
-14.0	213	151	99	60	39	18	10	4	2	1	1	1	1	1	1	1	1	1
-15.0	267	200	145	103	65	38	21	11	6	3	1	1	1	1	1	1	1	1
-16.0	367	287	212	151	108	69	39	21	12	8	5	3	2	1	1	1	1	1
-17.0	520	405	314	233	166	103	63	40	24	16	10	6	4	3	2	1	1	1
-18.0	722	527	370	285	218	157	123	86	64	46	29	22	14	11	7	4	3	2
-19.0	669	527	448	362	300	246	196	149	122	91	67	48	35	26	19	13	10	7
-20.0	748	650	571	503	422	360	299	243	196	153	126	99	76	55	40	28	21	15
-21.0	924	839	776	696	607	522	421	339	269	226	193	159	126	107	81	58	44	32
-22.0	1200	1119	933	761	624	514	450	382	338	300	264	236	200	173	148	118	92	68
-23.0	1277	1062	897	772	671	603	537	496	446	410	382	342	303	272	245	215	180	145
-24.0	1246	1086	964	883	808	746	700	656	620	578	515	472	422	388	351	316	281	246
-25.0	1317	1224	1125	1078	973	891	813	746	672	618	568	513	468	432	392	357	322	287
-26.0	1522	1384	1259	1141	1044	962	884	819	755	701	643	601	560	511	464	429	394	359
-27.0	1572	1444	1329	1243	1158	1067	1011	947	884	830	777	717	661	602	545	499	454	409
-28.0	1643	1575	1472	1372	1308	1207	1128	1070	1001	937	871	814	778	710	653	596	549	499
-29.0	1822	1724	1615	1511	1426	1361	1293	1230	1150	1091	1039	978	910	843	761	694	637	580
-30.0	1965	1857	1760	1668	1628	1556	1488	1430	1429	1444	1428	1380	1346	1299	1254	1209	1164	1119
-31.0	2097	2021	1945	1929	1864	1931	2020	2114	2175	2223	2206	2166	2106	2046	1986	1926	1866	1806
-32.0	2286	2277	2294	2447	2657	2820	3032	3181	3354	3447	3571	3605	3603	3565	3446	3286	3126	2966

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ALTITUDE= 600.0		ENERGY= 1.000		PROTONS													
	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0		
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-18.0	4	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-19.0	14	8	5	3	1	1	1	1	1	1	1	1	1	1	1	1	
-20.0	29	19	12	7	3	1	1	1	1	1	1	1	1	1	1	1	
-21.0	59	38	22	12	5	2	1	1	1	1	1	1	1	1	1	1	
-22.0	124	65	35	19	9	4	1	1	1	1	1	1	1	1	1	1	
-23.0	211	165	70	44	23	9	2	1	1	1	1	1	1	1	1	1	
-24.0	307	263	128	61	31	11	2	1	1	1	1	1	1	1	1	1	
-25.0	344	298	143	76	39	16	3	1	1	1	1	1	1	1	1	1	
-26.0	404	356	170	96	51	21	5	1	1	1	1	1	1	1	1	1	
-27.0	491	431	218	123	63	28	7	1	1	1	1	1	1	1	1	1	
-28.0	573	498	245	143	77	33	9	1	1	1	1	1	1	1	1	1	
-29.0	686	597	295	182	93	41	12	1	1	1	1	1	1	1	1	1	
-30.0	1085	948	421	237	124	51	19	1	1	1	1	1	1	1	1	1	
-31.0	1782	1605	835	349	224	132	53	1	1	1	1	1	1	1	1	1	
-32.0	3247	3025	1404	416	331	241	168	1	1	1	1	1	1	1	1	1	
			2725	680	528	399	266	155	78	22	3	1	1	1	1	1	
			2330	1179	907	694	461	265	120	37	5	1	1	1	1	1	
			1908	1548	1175	745	434	198	52	3	1	1	1	1	1	1	

M-187

ALTITUDE: 600 KM

PROTONS: E > 10. MEV

TRAPPED PROTON MODEL: AP8 (SOLAR MIN)

LL

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE=	PROTONS														
	600.0	ENERGY= 10.000													
	-120.0	-118.0	-116.0	-114.0	-112.0	-110.0	-108.0	-106.0	-104.0	-102.0	-100.0	-98.0	-96.0	-94.0	-92.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

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ALTITUDE= 600.0		ENERGY= 10.000		PROTONS											
	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	3	6
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	3	10	17
-3.0	1	1	1	1	1	1	1	1	1	1	1	4	12	23	32
-4.0	1	1	1	1	1	1	1	1	1	1	1	17	31	47	75
-5.0	1	1	1	1	1	1	1	1	1	1	12	31	62	107	148
-6.0	1	1	1	1	1	1	1	1	1	3	20	44	88	138	191
-7.0	1	1	1	1	1	1	1	1	1	10	34	67	121	175	242
-8.0	1	1	1	1	3	5	5	5	6	24	61	114	180	255	332
-9.0	1	1	1	2	7	22	30	43	66	107	156	212	282	366	476
-10.0	1	1	3	7	13	31	56	83	135	203	292	353	428	526	630
-11.0	1	1	5	13	19	42	89	122	178	271	377	502	578	674	793
-12.0	1	3	8	25	52	92	179	238	309	415	565	730	906	1007	1105
-13.0	1	4	12	36	74	130	229	305	395	496	663	838	1045	1145	1264
-14.0	3	8	22	60	95	158	289	355	463	609	776	964	1186	1305	1422
-15.0	4	13	34	72	126	204	322	429	543	690	880	1094	1308	1446	1559
-16.0	7	20	46	85	159	278	359	477	613	788	1012	1255	1412	1533	1654
-17.0	9	24	52	114	207	387	526	674	890	1116	1354	1495	1651	1780	1871
-18.0	17	38	78	131	205	301	422	573	759	984	1251	1398	1548	1701	1871
-19.0	21	43	83	132	210	316	454	633	864	1093	1252	1406	1606	1774	1935
-20.0	11	36	80	140	232	355	533	758	926	1099	1265	1441	1627	1832	2015
-21.0	1	13	27	148	263	408	569	728	905	1098	1293	1494	1689	1936	2171
-22.0	1	2	63	103	232	369	513	702	895	1080	1311	1540	1817	2055	2318
-23.0	1	6	29	83	181	319	505	682	884	1115	1403	1694	1982	2151	2304
-24.0	1	14	42	102	195	340	514	707	968	1240	1519	1698	1872	2025	2168
-25.0	5	25	71	146	269	453	641	874	1050	1218	1410	1590	1764	1921	2065
-26.0	7	26	64	133	232	371	543	755	924	1103	1276	1457	1633	1795	1976
-27.0	6	22	49	89	155	255	388	562	739	942	1179	1376	1538	1724	1915
-28.0	7	24	48	82	129	207	306	442	600	773	947	1176	1389	1595	1802
-29.0	7	25	49	81	132	193	279	389	531	697	881	1054	1267	1495	1758
-30.0	4	23	52	91	144	205	287	397	515	673	861	1073	1302	1552	1871
-31.0	3	20	53	102	158	238	332	438	566	745	947	1182	1453	1756	2146
-32.0	1	14	52	107	184	274	385	526	700	887	1140	1441	1771	2154	2657

ORIGINAL PAGE IS
OF POOR QUALITY

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ALTITUDE= 600.0		ENERGY= .0.000		PROTONS											
	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	32
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	63
1.0	4	8	11	15	21	22	16	10	8	29	16	39	45	41	104
0.0	12	18	24	34	50	39	30	28	48	102	111	125	130	120	160
-1.0	24	37	53	87	69	63	66	90	167	249	243	255	271	289	257
-2.0	48	75	129	111	110	109	144	227	343	340	340	357	361	359	346
-3.0	115	160	157	167	174	199	295	360	462	464	452	470	461	445	418
-4.0	172	204	224	235	277	355	429	482	586	582	573	584	571	548	503
-5.0	227	265	298	352	418	497	589	597	743	722	736	716	708	682	618
-6.0	288	358	430	490	596	671	768	743	899	912	890	877	858	855	801
-7.0	418	489	566	665	751	854	929	899	1091	1094	1087	1077	1081	1041	899
-8.0	563	665	743	844	938	1005	1093	1091	1308	1322	1310	1262	1207	1133	951
-9.0	734	821	928	1011	1096	1177	1250	1308	1435	1435	1410	1366	1291	1211	1061
-10.0	900	1010	1092	1190	1276	1351	1410	1435	1558	1547	1516	1452	1370	1334	1219
-11.0	1066	1165	1264	1357	1435	1508	1558	1558	1692	1667	1616	1556	1523	1470	1454
-12.0	1230	1337	1440	1536	1598	1664	1692	1787	1813	1751	1751	1690	1700	1736	1428
-13.0	1390	1499	1614	1693	1748	1807	1813	1932	1932	1904	1909	1910	1978	1781	1403
-14.0	1534	1652	1764	1837	1884	1925	1916	2068	2096	2174	2131	1934	1928	1739	1410
-15.0	1679	1807	1898	1966	2010	2040	2077	2374	2374	2276	2086	1928	1928	1745	1398
-16.0	1807	1916	2018	2087	2159	2207	2233	2274	2396	2234	2054	1919	1919	1765	1407
-17.0	1906	2031	2140	2235	2290	2371	2454	2484	2377	2216	2082	1942	1942	1818	1517
-18.0	1983	2132	2274	2367	2495	2600	2575	2511	2350	2242	2078	1988	1988	1827	1727
-19.0	2089	2251	2396	2605	2654	2645	2608	2485	2350	2244	2174	2010	1930	1972	2106
-20.0	2225	2419	2612	2673	2651	2661	2556	2452	2350	2244	2174	2010	1930	1972	2106
-21.0	2432	2556	2615	2672	2655	2602	2532	2449	2383	2303	2221	2125	2192	2407	2738
-22.0	2458	2551	2601	2624	2580	2551	2512	2481	2432	2361	2309	2265	2396	3113	3481
-23.0	2393	2451	2499	2531	2556	2559	2533	2533	2511	2501	2445	2300	3435	3689	3388
-24.0	2275	2375	2461	2494	2534	2580	2635	2598	2664	2803	3189	3741	3880	3616	3317
-25.0	2209	2305	2433	2482	2548	2634	2668	2753	2979	3364	4037	4837	3700	3591	3593
-26.0	2122	2245	2431	2523	2582	2713	2881	3151	3650	4342	4185	3961	3878	3791	3936
-27.0	2078	2240	2386	2501	2678	2945	3316	3866	4566	4266	4092	3878	3806	3791	3936
-28.0	1966	2166	2365	2637	2976	3412	4097	4503	4294	4146	3598	3927	3950	4154	4659
-29.0	2000	2253	2588	2952	3572	4305	4426	4276	4182	4030	4080	4123	4394	4869	4878
-30.0	2177	2579	3061	3684	4333	4211	4194	4113	4060	4144	4277	4554	5044	4996	4295
-31.0	2600	3126	3842	3998	4020	4012	4003	4037	4164	4344	4698	5295	5024	4382	3916
-32.0	3346	3502	3651	3724	3734	3829	3950	4103	4397	4806	5459	6993	4387	3972	3672

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A.TITUDE= 600.0	ENERGY= 10.000															PROTONS														
	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-18.0	-16.0	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0															
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1															
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1															
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1															
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1															
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1															
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1															
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1															
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1															
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1															
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1															
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1															
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1															
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19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1															
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1															
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1															
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14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1															
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1															
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1															
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1															
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1															
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1															
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1															
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1															
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1															
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1															
4.0	4	3	2	1	1	1	1	1	1	1	1	1	1	1	1															
3.0	11	8	6	4	2	1	1	1	1	1	1	1	1	1	1															
2.0	28	22	14	9	5	3	2	1	1	1	1	1	1	1	1															
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0.0	94	87	69	56	41	23	14	7	4	1	1	1	1	1	1															
-1.0	150	129	105	85	65	47	32	19	13	7	2	1	1	1	1															
-2.0	238	199	158	144	113	90	65	43	27	14	3	1	1	1	1															
-3.0	317	276	230	189	147	113	83	56	25	6	1	1	1	1	1															
-4.0	378	323	257	234	192	152	113	58	12	1	1	1	1	1	1															
-5.0	458	417	372	327	270	231	118	53	25	12	5	1	1	1	1															
-6.0	578	569	509	423	318	212	144	90	66	44	29	14	6	1	1															
-7.0	770	654	546	433	335	268	223	193	152	119	77	40	21	10	3															
-8.0	798	700	595	494	438	432	405	287	180	118	73	49	32	21	11															
-9.0	854	767	634	472	711	539	362	249	168	125	91	70	52	39	24															
-10.0	984	952	900	825	646	451	323	245	187	149	126	105	84	62	45															
-11.0	1203	1123	950	761	568	420	330	270	233	211	181	159	136	107	79															
-12.0	1265	1096	920	704	538	439	382	354	326	303	280	249	215	174	139															
-13.0	1248	1101	853	690	576	518	490	475	472	456	440	403	358	302	239															
-14.0	1245	1027	843	727	668	663	663	684	710	684	677	627	569	469	351															
-15.0	1198	1013	901	846	854	904	943	1049	1059	980	774	615	496	402	321															
-16.0	1215	1085	1049	1076	1177	1287	1438	1417	1159	955	799	677	586	492	321															
-17.0	1280	1272	1336	1443	1623	1893	1631	1377	1147	1028	905	821	744	660	569															
-18.0	1506	1578	1779	2074	2164	1860	1585	1392	1276	1161	1115	1037	964	894	767															
-19.0	1827	2088	2501	2397	2100	1830	1640	1547	1489	1442	1448	1402	1340	1011	759															
-20.0	2390	2928	2648	2353	2091	1927	1868	1829	1839	1914	1935	1497	1164	903	578															
-21.0	3247	2872	2612	2364	2220	2162	2203	2274	2430	2098	1635	1324	1104	964	878															
-22.0	3122	2865	2609	2422	2491	2594	2740	2870	2257	1826	1531	1334	1222	1180	1100															
-23.0	3099	2890	2707	2801	2955	3151	3070	2474	2021	1757	1583	1486	1501	1460	1295															
-24.0	3160	3081	3098	3309	3666	3245	2564	2233	1985	1836	1791	1852	1657	1375	1132															
-25.0	3312	3386	3660	4135	3445	2869	2488	2221	2112	2134	2138	1734	1467	1250	1120															
-26.0	3693	3974	4331	3653	3081	2697	2460	2396	2436	2240	1839	1577	1377	1278	1214															
-27.0	4309	4545	3849	3308	2923	2677	2682	2722	2340	1957	1699	1532	1469	1422	1286															
-28.0	4740	4031	3477	3101	2873	2940	2946	2462	2067	1835	1690	1669	1548	1321	1145															
-29.0	4167	3685	3295	3092	3193	2938	2568	2183	1963	1861	1848	1578	1377	1208	1095															
-30.0	3798	3444	3284	3384	3058	2674	2293	2093	2012	1915	1625	1428	1268	1176	1135															
-31.0	3578	3436	3576	3160	2763	2405	2235	2157	1965	1671	1487	1337	1267	1200	1089															
-32.0	3560	3726	3221	2855	2511	2329	2287	2009	1720	1541	1403	1355	1242	1137	1063															

ORIGINAL PAGE IS
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	ALTITUDE= 600.0		ENERGY= 10.000		PROTONS											
	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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-18.0	649	467	335	253	188	140	108	76	57	41	26	19	12	9	6	
-19.0	585	471	392	322	262	220	172	131	107	80	59	42	31	23	17	
-20.0	664	564	510	440	377	319	263	215	170	135	109	88	67	49	36	
-21.0	799	738	633	608	548	453	372	292	236	197	167	140	111	94	72	
-22.0	1038	987	789	643	520	436	385	331	293	261	230	204	175	153	133	
-23.0	1045	865	725	630	560	515	461	427	386	355	326	296	265	240	218	
-24.0	976	854	775	730	686	635	599	565	533	480	429	395	358	330	296	
-25.0	1017	970	928	910	785	691	607	546	495	456	416	378	349	327	300	
-26.0	1190	1096	931	808	712	647	597	551	512	482	452	424	395	364	336	
-27.0	1115	963	857	780	731	676	644	617	591	548	507	472	440	408	376	
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-29.0	1021	987	909	829	774	721	679	647	611	583	560	539	513	480	440	
-30.0	1050	955	839	828	797	759	731	709	682	646	603	563	535	502	470	
-31.0	1005	951	903	883	858	798	754	716	681	659	637	611	585	554	523	
-32.0	1016	1002	951	882	841	800	779	764	761	741	730	702	664	631	597	

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ALTITUDE= 600.0 ENERGY= 10.000

PROTONS

	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0
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30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	4	2	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	12	7	4	2	1	1	1	1	1	1	1	1	1	1	1
-20.0	26	17	10	6	2	1	1	1	1	1	1	1	1	1	1
-21.0	53	34	20	11	5	2	1	1	1	1	1	1	1	1	1
-22.0	110	85	62	40	20	8	2	1	1	1	1	1	1	1	1
-23.0	186	147	115	85	54	28	9	2	1	1	1	1	1	1	1
-24.0	263	230	194	143	98	56	24	6	1	1	1	1	1	1	1
-25.0	265	232	194	161	120	80	46	17	3	1	1	1	1	1	1
-26.0	299	269	228	188	149	106	69	33	11	1	1	1	1	1	1
-27.0	341	307	265	228	181	136	90	48	18	1	1	1	1	1	1
-28.0	364	324	279	239	193	145	104	63	30	1	1	1	1	1	1
-29.0	403	360	317	269	219	171	123	70	41	1	1	1	1	1	1
-30.0	432	388	342	300	250	196	145	95	11	1	1	1	1	1	1
-31.0	485	449	409	350	285	232	168	114	52	1	1	1	1	1	1
-32.0	549	498	444	387	327	265	207	140	88	47	19	1	1	1	1

M-193

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE: 600 KM

PROTONS: $E > 25$. MEV

TRAPPED PROTON MODEL: AP8 (SOLAR MIN)

MM

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 600.0		ENERGY= 25.000		PROTONS											
	-120.0	-118.0	-116.0	-114.0	-112.0	-110.0	-108.0	-106.0	-104.0	-102.0	-100.0	-98.0	-96.0	-94.0	-92.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

ALTITUDE= 600.0		ENERGY= 25.000		PROTONS											
	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	2	6
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	3	9	15
-3.0	1	1	1	1	1	1	1	1	1	1	1	3	11	20	29
-4.0	1	1	1	1	1	1	1	1	1	1	1	14	27	43	69
-5.0	1	1	1	1	1	1	1	1	1	1	10	26	57	101	139
-6.0	1	1	1	1	1	1	1	1	1	1	18	41	83	130	181
-7.0	1	1	1	1	1	1	1	1	1	1	31	63	114	165	228
-8.0	1	1	1	1	1	3	3	4	5	21	56	105	166	236	308
-9.0	1	1	1	1	7	13	19	29	50	90	137	188	253	349	426
-10.0	1	1	1	2	11	18	36	58	102	164	248	304	373	461	555
-11.0	1	1	1	6	20	24	55	82	130	211	310	427	496	582	688
-12.0	1	1	2	12	28	37	79	119	177	256	384	533	648	741	825
-13.0	1	1	5	18	40	52	107	152	211	305	442	598	767	859	947
-14.0	1	1	11	32	52	71	137	195	270	359	513	680	884	975	1083
-15.0	1	2	18	39	71	91	173	226	316	444	599	782	1003	1113	1220
-16.0	3	6	25	48	92	119	197	280	376	507	684	894	1108	1236	1340
-17.0	5	11	33	67	124	167	227	319	435	593	807	1051	1202	1314	1438
-18.0	10	22	47	80	131	177	255	367	494	692	912	1149	1280	1426	1549
-19.0	13	26	54	89	146	200	295	421	586	798	1060	1195	1336	1481	1644
-20.0	7	24	56	102	175	227	339	494	707	926	1071	1214	1401	1552	1720
-21.0	1	10	48	117	216	276	431	636	788	943	1097	1261	1436	1636	1816
-22.0	1	1	23	89	203	321	448	625	784	959	1140	1330	1518	1760	1998
-23.0	1	6	27	76	165	291	461	620	792	963	1179	1398	1667	1903	2164
-24.0	1	13	40	95	183	319	486	667	807	1024	1297	1572	1857	2000	2123
-25.0	4	23	57	137	255	434	610	840	914	1175	1447	1600	1744	1868	1979
-26.0	5	23	59	128	216	348	509	707	1009	1164	1327	1482	1626	1754	1867
-27.0	6	20	44	81	142	233	354	512	856	1020	1176	1335	1483	1615	1757
-28.0	6	21	43	74	117	187	277	395	671	852	1058	1222	1367	1508	1656
-29.0	6	22	44	73	119	185	249	349	534	685	862	1029	1205	1371	1536
-30.0	4	20	47	82	130	183	260	350	469	610	765	912	1089	1277	1491
-31.0	2	18	47	92	144	215	394	396	456	595	750	922	1110	1315	1573
-32.0	1	12	47	56	163	247	347	463	502	651	828	1032	1259	1508	1829
									628	792	954	1241	1524	1851	2277

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 600.0		ENERGY= 25.000		PROTONS													
	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0		
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2.0	1	1	2	4	6	7	6	3	1	1	1	5	14	13	7	3	
1.0	3	7	10	13	18	20	15	9	7	22	46	25	50	28	18	8	
0.0	11	16	22	31	45	36	28	26	41	77	79	82	79	70	59	36	
-1.0	21	33	49	82	65	58	61	79	136	129	122	123	121	108	92	59	
-2.0	44	69	122	104	103	101	129	193	198	181	177	173	177	175	153	92	
-3.0	108	151	148	157	162	181	256	302	267	251	248	240	236	224	215	181	
-4.0	163	194	212	219	253	310	367	398	359	342	316	320	306	292	275	244	
-5.0	215	250	278	322	369	429	501	486	454	431	410	411	398	382	355	306	
-6.0	269	333	393	434	519	575	650	603	562	559	530	519	500	475	470	382	
-7.0	384	440	533	581	649	729	786	735	728	692	676	662	671	643	661	475	
-8.0	502	589	650	732	806	856	926	906	894	881	872	891	873	835	770	643	
-9.0	643	717	807	871	939	1003	1062	1108	1118	1108	1069	1027	971	904	833	661	
-10.0	783	875	943	1025	1095	1155	1204	1223	1223	1205	1174	1117	1057	996	954	835	
-11.0	920	1005	1090	1168	1233	1295	1338	1338	1332	1312	1266	1206	1190	1136	1132	835	
-12.0	1059	1153	1243	1325	1379	1438	1464	1472	1454	1420	1380	1369	1341	1366	1384	1136	
-13.0	1196	1294	1397	1467	1517	1573	1583	1568	1548	1564	1528	1562	1632	1515	1340	1366	
-14.0	1322	1430	1533	1601	1648	1691	1692	1721	1711	1739	1765	1862	1665	1477	1289	1340	
-15.0	1452	1573	1660	1727	1774	1812	1861	1871	1921	2024	1982	1795	1606	1438	1257	1366	
-16.0	1573	1678	1778	1850	1931	1990	2032	2097	2215	2103	1922	1764	1588	1412	1220	1606	
-17.0	1672	1795	1907	2008	2076	2172	2278	2304	2201	2044	1868	1739	1560	1392	1212	1764	
-18.0	1757	1907	2054	2156	2300	2421	2374	2292	2160	2002	1873	1709	1569	1372	1291	1868	
-19.0	1875	2041	2195	2419	2457	2425	2367	2246	2109	1999	1823	1708	1554	1443	1457	1709	
-20.0	2029	2232	2432	2462	2422	2403	2298	2189	2086	1960	1860	1701	1631	1655	1778	1823	
-21.0	2262	2366	2401	2426	2396	2329	2250	2163	2072	1964	1868	1789	1833	2010	2246	1960	
-22.0	2269	2330	2358	2358	2303	2259	2213	2145	2065	1979	1937	1998	2206	2641	2954	1868	
-23.0	2187	2221	2244	2252	2256	2244	2179	2141	2096	2089	2198	2399	2886	3126	2847	1937	
-24.0	2057	2127	2184	2195	2205	2204	2214	2161	2217	2324	2429	3120	3283	3011	2818	2044	
-25.0	1976	2049	2105	2140	2164	2204	2214	2289	2464	2768	3338	3409	3152	2987	2826	2324	
-26.0	1863	1962	2050	2130	2153	2251	2391	2600	2994	3591	3523	3266	3126	2988	3037	2429	
-27.0	1779	1898	2001	2085	2228	2441	2729	3165	3777	3579	3366	3264	3155	3200	3366	2600	
-28.0	1664	1822	1981	2196	2461	2805	3348	3748	3587	3406	3356	3251	3328	3540	3967	3165	
-29.0	1685	1885	2151	2472	2933	3546	3714	3554	3446	3380	3373	3468	3734	4222	4211	3406	
-30.0	1820	2143	2529	3057	3627	3538	3464	3413	3393	3433	3592	3869	4369	4283	3590	3446	
-31.0	2205	2649	3265	3379	3346	3312	3356	3356	3467	3645	3997	4585	4287	3643	3140	3446	
-32.0	2856	2958	3045	3099	3143	3212	3270	3444	3708	4104	4737	4250	3627	3176	2928	3446	

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ALTITUDE= 600.0 ENERGY= 25.000

PROTONS

	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-19.0	-16.0	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	6	4	3	1	1	1	1	1	1	1	1	1	1	1	1
2.0	15	11	7	4	2	1	1	1	1	1	1	1	1	1	1
1.0	32	24	16	11	7	5	2	1	1	1	1	1	1	1	1
0.0	52	44	37	30	22	12	7	4	2	1	1	1	1	1	1
-1.0	86	73	59	48	37	27	18	11	7	4	2	1	1	1	1
-2.0	141	117	99	85	67	54	40	26	16	8	2	1	1	1	1
-3.0	197	171	144	121	97	76	57	39	23	10	4	1	1	1	1
-4.0	251	217	199	166	141	115	87	45	17	4	1	1	1	1	1
-5.0	329	309	284	259	220	195	103	47	10	1	1	1	1	1	1
-6.0	452	463	427	361	275	190	132	84	23	11	5	1	1	1	1
-7.0	653	560	474	363	306	249	183	84	62	41	27	12	5	1	1
-8.0	691	617	536	458	413	407	210	143	112	70	37	18	9	2	2
-9.0	760	699	650	642	678	509	387	270	167	108	67	45	29	19	10
-10.0	906	900	929	778	602	413	335	229	153	113	83	63	47	35	22
-11.0	1143	1081	888	702	515	376	293	222	167	113	94	76	56	40	22
-12.0	1204	1018	840	633	478	391	297	241	211	189	164	142	97	71	40
-13.0	1152	896	760	608	508	391	340	315	296	270	252	224	192	158	125
-14.0	1115	909	738	635	581	460	431	430	418	409	391	365	315	274	213
-15.0	1052	885	740	741	747	591	590	611	625	614	599	568	422	314	239
-16.0	1053	533	908	940	1017	1144	1264	1244	1014	857	716	610	527	443	376
-17.0	1095	1088	1163	1244	1422	1683	1417	1202	1024	917	821	740	670	597	522
-18.0	1277	1364	1534	1785	1916	1600	1381	1237	1134	1057	1004	934	869	817	706
-19.0	1561	1801	2128	2107	1789	1590	1445	1371	1361	1300	1293	1260	1201	918	688
-20.0	2061	2491	2303	1991	1813	1684	1653	1662	1661	1692	1737	1327	1036	803	673
-21.0	2761	2470	2214	2040	1924	1910	1983	2062	2170	1843	1435	1162	968	847	755
-22.0	2653	2431	2237	2144	2192	2311	2493	2552	1950	1583	1327	1157	1066	1000	951
-23.0	2631	2457	2369	2452	2621	2875	2690	2104	1732	1511	1359	1289	1266	1248	1093
-24.0	2663	2629	2696	2930	3332	2915	2241	1892	1694	1562	1546	1560	1381	1105	940
-25.0	2814	2927	3225	3722	2965	2390	2078	1885	1781	1835	1771	1402	1152	1008	871
-26.0	3173	3486	3854	3119	2544	2229	2077	2004	2084	1789	1444	1219	1085	972	922
-27.0	3762	3996	3265	2710	2392	2248	2223	2299	1822	1502	1295	1182	1096	1065	914
-28.0	4123	3402	2833	2523	2401	2419	2350	1878	1559	1360	1284	1226	1112	873	731
-29.0	3502	2562	2663	2571	2622	2389	1930	1623	1459	1356	1341	1071	860	735	661
-30.0	3061	2768	2719	2775	2444	1985	1684	1539	1495	1329	1048	857	747	693	664
-31.0	2862	2836	2928	2491	2033	1747	1624	1590	1310	1037	866	767	732	668	577
-32.0	2931	3046	2516	2082	1807	1681	1675	1298	1035	878	790	770	653	573	515

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 600.0		ENERGY= 25.000				PRUTONS										
	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-8.0	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
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-10.0	25	14	4	1	1	1	1	1	1	1	1	1	1	1	1	
-11.0	49	24	13	5	1	1	1	1	1	1	1	1	1	1	1	
-12.0	89	54	29	12	4	1	1	1	1	1	1	1	1	1	1	
-13.0	144	87	49	25	13	5	2	1	1	1	1	1	1	1	1	
-14.0	171	123	80	49	30	14	8	3	1	1	1	1	1	1	1	
-15.0	218	166	119	86	51	29	16	9	5	2	1	1	1	1	1	
-16.0	305	240	174	128	86	54	32	17	10	6	4	2	1	1	1	
-17.0	433	338	259	194	133	82	51	33	20	13	8	5	3	2	1	
-18.0	608	425	332	229	172	128	101	71	53	38	28	18	11	9	6	
-19.0	825	418	351	287	242	202	161	123	101	76	56	40	29	22	16	
-20.0	979	501	445	397	347	294	246	200	161	126	103	82	63	46	34	
-21.0	700	641	604	560	495	420	336	263	210	177	150	125	101	86	67	
-22.0	899	859	734	553	446	368	321	277	249	222	196	176	154	136	117	
-23.0	886	720	596	515	452	410	374	352	317	292	272	252	230	208	187	
-24.0	781	679	615	570	531	503	481	451	427	390	354	323	289	267	245	
-25.0	788	753	704	688	597	507	445	401	357	325	300	277	259	242	223	
-26.0	905	789	658	555	489	441	400	370	348	331	309	292	274	256	239	
-27.0	747	632	556	508	465	433	417	403	385	367	328	305	286	266	247	
-28.0	634	585	559	506	491	444	396	361	333	310	289	270	257	241	225	
-29.0	618	583	534	474	423	388	360	337	315	300	288	277	263	248	231	
-30.0	590	521	464	424	397	372	354	342	324	298	277	259	245	230	216	
-31.0	515	468	437	413	396	359	328	304	286	270	257	244	233	222	211	
-32.0	480	457	422	376	345	321	305	289	278	268	262	251	234	215	198	

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ALTITUDE= 600.0		ENERGY= 25.000		PROTONS														
	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0			
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	4	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	12	7	4	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	25	16	10	6	2	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	49	32	19	10	4	2	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	99	76	58	37	19	7	2	1	1	1	1	1	1	1	1	1	1	1
-23.0	162	132	104	78	51	26	9	2	1	1	1	1	1	1	1	1	1	1
-24.0	224	202	174	129	91	54	23	10	3	1	1	1	1	1	1	1	1	1
-25.0	200	178	154	129	99	69	40	15	3	1	1	1	1	1	1	1	1	1
-26.0	216	197	173	143	116	85	56	29	10	1	1	1	1	1	1	1	1	1
-27.0	227	208	184	162	133	103	72	40	16	2	1	1	1	1	1	1	1	1
-28.0	210	191	168	147	123	97	73	47	24	6	1	1	1	1	1	1	1	1
-29.0	215	197	178	157	133	107	84	55	29	8	1	1	1	1	1	1	1	1
-30.0	201	185	167	150	129	106	81	55	33	11	1	1	1	1	1	1	1	1
-31.0	198	184	160	147	125	106	81	59	34	13	1	1	1	1	1	1	1	1
-32.0	180	165	150	133	113	95	74	53	34	19	6	1	1	1	1	1	1	1

ORIGINAL PAGE IS
OF POOR QUALITY

M-199

ALTITUDE: 600 KM

PROTONS: $E > 50$. MEV

TRAPPED PROTON MODEL: AP8 (SOLAR MIN)

NN

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 600.0		ENERGY= 53.000		PROTONS											
	-120.0	-118.0	-116.0	-114.0	-112.0	-110.0	-108.0	-106.0	-104.0	-102.0	-100.0	-98.0	-96.0	-94.0	-92.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

ALTITUDE= 600.0		ENERGY= 50.000		PROTONS											
	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	2	2	5
-2.0	1	1	1	1	1	1	1	1	1	1	1	3	9	18	26
-3.0	1	1	1	1	1	1	1	1	1	1	3	13	25	40	63
-4.0	1	1	1	1	1	1	1	1	1	1	9	27	54	95	134
-5.0	1	1	1	1	1	1	1	1	1	2	17	38	78	123	170
-6.0	1	1	1	1	1	1	1	1	2	8	29	58	105	151	204
-7.0	1	1	1	1	1	1	2	2	4	19	50	93	147	207	269
-8.0	1	1	1	1	2	7	10	18	36	74	115	159	216	298	361
-9.0	1	1	1	1	4	9	20	36	72	127	203	252	312	387	466
-10.0	1	1	1	1	5	12	29	49	87	156	244	351	410	484	574
-11.0	1	1	1	2	10	19	41	68	114	180	293	432	534	613	683
-12.0	1	1	1	5	14	26	55	85	130	206	326	469	630	708	783
-13.0	1	1	1	8	20	38	70	109	165	239	372	527	724	803	895
-14.0	1	1	4	15	26	46	89	126	193	297	434	605	822	917	1010
-15.0	1	2	8	19	36	61	103	161	235	342	500	700	909	1021	1112
-16.0	1	5	12	24	47	86	125	191	281	414	610	851	989	1088	1196
-17.0	2	7	15	34	64	96	149	232	334	506	714	944	1058	1187	1296
-18.0	5	11	24	42	74	119	187	286	424	617	869	987	1110	1239	1385
-19.0	6	14	31	54	91	149	234	363	554	760	884	1009	1174	1317	1460
-20.0	4	14	35	69	124	203	332	515	648	781	914	1058	1213	1392	1555
-21.0	1	6	34	88	170	278	399	518	653	803	961	1129	1296	1514	1730
-22.0	1	1	20	75	169	268	375	518	668	817	1006	1200	1441	1655	1892
-23.0	1	5	24	68	144	250	394	531	692	881	1120	1366	1622	1741	1838
-24.0	1	12	37	89	166	283	426	583	798	1028	1271	1398	1515	1614	1700
-25.0	4	22	63	131	238	400	547	748	892	1021	1157	1284	1401	1503	1591
-26.0	5	21	54	115	203	326	466	636	755	892	1022	1152	1272	1377	1488
-27.0	5	18	40	73	128	212	321	463	597	751	921	1048	1157	1277	1394
-28.0	5	18	38	66	104	165	243	350	470	600	747	883	1026	1158	1287
-29.0	5	18	38	63	104	152	216	330	403	524	654	775	910	1070	1238
-30.0	3	16	38	71	111	158	222	298	386	498	626	767	919	1081	1283
-31.0	2	13	36	76	120	180	249	333	419	541	685	846	1022	1216	1464
-32.0	1	9	34	74	133	203	286	383	525	647	809	1006	1230	1485	1815

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 600.0 ENERGY= 50.000

PROTONS

	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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0.0	9	14	8	11	16	19	14	8	6	16	29	14	15	12	9
-1.0	19	30	19	29	43	33	25	23	33	55	51	30	26	20	18
-2.0	40	63	45	77	60	55	55	67	106	91	78	48	41	36	30
-3.0	101	146	115	100	97	90	110	159	200	125	111	103	96	55	47
-4.0	155	182	194	194	218	156	213	245	263	170	156	142	133	91	78
-5.0	198	224	245	277	310	260	303	316	263	233	200	196	180	122	116
-6.0	238	251	338	367	423	356	411	379	330	296	268	262	251	171	161
-7.0	331	374	424	486	539	476	532	468	413	395	362	351	338	242	227
-8.0	425	496	544	613	667	601	644	576	551	506	489	478	497	325	334
-9.0	539	600	673	723	777	704	760	726	700	682	675	705	707	487	524
-10.0	653	729	783	851	907	827	873	909	916	908	877	846	803	685	636
-11.0	764	835	905	958	1021	954	993	1008	1008	995	972	930	885	752	698
-12.0	879	957	1033	1101	1146	1073	1109	1109	1106	1093	1059	1015	972	840	813
-13.0	992	1075	1164	1224	1267	1196	1219	1228	1218	1195	1168	1154	1188	972	981
-14.0	1097	1191	1281	1341	1383	1316	1327	1320	1308	1331	1309	1351	1425	1188	1215
-15.0	1210	1316	1393	1454	1499	1424	1429	1462	1462	1497	1532	1626	1448	1324	1165
-16.0	1316	1413	1531	1568	1646	1538	1589	1605	1661	1765	1726	1555	1385	1279	1114
-17.0	1407	1518	1621	1717	1785	1706	1751	1821	1936	1826	1660	1515	1359	1236	1078
-18.0	1488	1625	1762	1860	2000	1880	1986	2008	1905	1759	1600	1482	1325	1205	1044
-19.0	1602	1755	1900	2112	2141	2116	2062	1978	1853	1708	1588	1445	1329	1185	1026
-20.0	1751	1940	2126	2139	2093	2100	2036	1920	1794	1690	1537	1432	1299	1153	1077
-21.0	1974	2064	2081	2088	2049	2061	1960	1857	1759	1645	1553	1417	1349	1200	1193
-22.0	1971	2012	2024	2012	1955	1981	1903	1819	1734	1636	1550	1473	1493	1352	1429
-23.0	1882	1902	1911	1907	1899	1906	1856	1790	1714	1636	1588	1623	1764	1611	1356
-24.0	1758	1807	1844	1845	1842	1831	1827	1776	1727	1705	1678	1914	2268	2080	2329
-25.0	1674	1728	1765	1784	1794	1871	1813	1857	1804	1876	2091	2446	2581	2461	2227
-26.0	1569	1643	1706	1761	1773	1836	1734	1857	1822	2196	2610	2676	2460	2353	2218
-27.0	1488	1583	1635	1711	1813	1971	2084	2084	2366	2800	2759	2547	2434	2334	2195
-28.0	1384	1503	1621	1785	1978	2229	2626	2911	2937	2799	2621	2535	2448	2320	2364
-29.0	1387	1539	1739	1976	2317	2768	2679	2769	2800	2649	2604	2520	2576	2481	2666
-30.0	1473	1716	2037	2401	2821	2770	2697	2648	2676	2627	2610	2681	2958	2807	3090
-31.0	1751	2587	2548	2653	2612	2578	2600	2612	2651	2652	2777	3066	3405	3291	3239
-32.0	2259	2326	2385	2417	2442	2515	2535	2652	2886	3238	3676	3277	2881	2601	2373

A.TITUDE= 600.0		ENERGY= 50.000		PROTONS											
	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-18.0	-16.0	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	7	4	2	1	1	1	1	1	1	1	1	1	1	1	1
1.0	16	11	6	4	2	1	1	1	1	1	1	1	1	1	1
0.0	26	22	18	15	11	5	3	1	1	1	1	1	1	1	1
-1.0	43	37	30	24	19	14	9	5	4	2	1	1	1	1	1
-2.0	72	60	51	44	35	27	21	14	8	4	1	1	1	1	1
-3.0	106	92	79	68	57	45	35	23	10	2	1	1	1	1	1
-4.0	149	130	125	108	95	81	62	33	7	1	1	1	1	1	1
-5.0	216	211	204	194	171	159	86	41	21	10	4	1	1	1	1
-6.0	333	360	346	299	229	162	116	77	58	38	25	11	4	1	1
-7.0	536	462	395	323	263	220	192	171	136	106	66	34	16	8	2
-8.0	576	518	456	397	366	366	360	255	156	98	60	40	26	16	8
-9.0	643	599	566	569	609	467	310	209	137	101	74	55	41	30	17
-10.0	782	786	823	692	545	376	264	195	147	120	98	81	65	47	32
-11.0	1003	952	784	629	463	336	258	208	182	164	138	119	105	80	56
-12.0	1053	891	745	562	421	337	292	268	253	227	210	185	158	126	95
-13.0	1001	866	665	529	434	390	363	359	350	335	319	294	253	213	158
-14.0	962	788	638	540	495	485	488	511	509	456	478	453	329	242	186
-15.0	907	757	660	616	620	650	694	743	750	682	557	435	350	288	233
-16.0	896	786	751	776	829	923	1026	984	805	682	564	486	421	368	307
-17.0	918	897	948	1010	1140	1358	1120	954	813	723	658	591	563	495	439
-18.0	1049	1103	1239	1423	1525	1263	1094	979	892	848	806	776	740	684	585
-19.0	1258	1449	1690	1663	1412	1255	1145	1076	1076	1045	1062	1104	1016	759	561
-20.0	1646	1972	1810	1571	1424	1335	1300	1306	1335	1376	1504	1109	843	648	537
-21.0	2181	1938	1747	1593	1528	1503	1552	1656	1746	1602	1185	938	776	670	611
-22.0	2079	1918	1741	1704	1726	1800	2000	2051	1691	1296	1067	923	837	804	764
-23.0	2076	1909	1872	1929	2032	2271	2159	1811	1410	1209	1080	1006	1012	997	887
-24.0	2069	2063	2123	2266	2600	2257	1916	1534	1351	1239	1198	1234	1087	895	700
-25.0	2199	2310	2500	2889	2372	2028	1682	1497	1411	1413	1387	1090	904	735	643
-26.0	2509	2708	2933	2492	2144	1802	1543	1586	1599	1388	1116	929	782	712	669
-27.0	2927	3085	2635	2261	1934	1774	1761	1759	1398	1153	968	845	797	764	663
-28.0	3176	2709	2347	2042	1890	1919	1783	1426	1189	1017	910	885	787	630	509
-29.0	2786	2452	2158	2019	2083	1802	1455	1230	1064	982	962	751	607	503	446
-30.0	2509	2245	2131	2264	1836	1487	1270	1115	1045	940	731	592	505	453	416
-31.0	2323	2218	2317	1863	1516	1311	1171	1105	915	720	588	513	468	409	340
-32.0	2289	2404	1877	1545	1349	1207	1158	899	714	589	524	483	388	324	284

ORIGINAL PAGE IS
OF POOR QUALITY

M-203

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED

ALTITUDE= 600.0		ENERGY= 30.000				PROTONS										
	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-8.0	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-9.0	9	3	1	1	1	1	1	1	1	1	1	1	1	1	1	
-10.0	19	10	4	1	1	1	1	1	1	1	1	1	1	1	1	
-11.0	37	20	10	4	1	1	1	1	1	1	1	1	1	1	1	
-12.0	65	36	21	9	3	1	1	1	1	1	1	1	1	1	1	
-13.0	103	62	35	20	10	4	1	1	1	1	1	1	1	1	1	
-14.0	131	94	61	39	25	12	7	3	1	1	1	1	1	1	1	
-15.0	175	130	94	69	43	26	15	8	5	2	1	1	1	1	1	
-16.0	247	193	139	103	74	50	29	16	9	6	3	2	1	1	1	
-17.0	350	274	211	159	115	78	49	31	19	13	8	5	3	2	1	
-18.0	495	343	247	195	149	114	88	64	48	35	23	17	11	8	5	
-19.0	422	341	291	248	203	172	135	106	86	67	50	37	27	20	15	
-20.0	470	410	378	332	282	241	199	168	133	108	89	72	57	42	31	
-21.0	567	535	509	445	399	332	268	212	172	146	124	105	87	74	58	
-22.0	737	729	544	428	343	287	264	222	198	177	158	144	124	108	94	
-23.0	694	548	451	390	347	322	292	271	247	230	216	196	175	159	145	
-24.0	583	506	458	433	415	384	364	345	329	297	259	234	212	197	183	
-25.0	579	552	475	399	440	374	321	278	247	225	207	190	176	165	153	
-26.0	657	592	535	459	440	396	268	247	230	214	200	189	179	168	158	
-27.0	537	445	385	334	305	282	268	253	239	223	205	191	175	160	147	
-28.0	439	385	347	324	313	268	237	213	191	173	160	149	141	131	121	
-29.0	395	369	331	278	246	220	195	179	167	157	147	139	132	125	117	
-30.0	361	302	265	233	209	192	182	171	156	140	128	119	110	102	95	
-31.0	289	256	227	210	199	169	148	133	121	111	104	98	93	89	83	
-32.0	251	229	207	172	150	137	121	112	107	102	98	92	84	78	73	

ALTITUDE= 600.0		ENERGY= 50.000		PROTONS													
	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0		
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
-18.0	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1		
-19.0	11	6	4	2	1	1	1	1	1	1	1	1	1	1	1		
-20.0	23	15	9	5	2	1	1	1	1	1	1	1	1	1	1		
-21.0	44	29	17	9	4	1	1	1	1	1	1	1	1	1	1		
-22.0	81	64	48	32	17	7	1	1	1	1	1	1	1	1	1		
-23.0	127	103	82	64	43	24	8	2	1	1	1	1	1	1	1		
-24.0	167	150	130	102	73	47	21	5	1	1	1	1	1	1	1		
-25.0	139	125	109	94	74	52	31	13	2	1	1	1	1	1	1		
-26.0	145	131	112	94	77	56	37	20	7	1	1	1	1	1	1		
-27.0	135	125	111	96	78	62	43	25	11	1	1	1	1	1	1		
-28.0	112	101	90	80	67	53	40	26	13	3	1	1	1	1	1		
-29.0	110	102	90	79	67	55	40	26	13	3	1	1	1	1	1		
-30.0	88	81	74	65	55	46	35	26	13	4	1	1	1	1	1		
-31.0	77	71	65	59	52	43	34	24	14	5	1	1	1	1	1		
-32.0	67	62	55	48	42	35	27	20	13	6	2	1	1	1	1		

ORIGINAL PAGE IS
OF POOR QUALITY

M-205

ALTITUDE: 600 KM

PROTONS: E > 100. MEV

TRAPPED PROTON MODEL: AP8 (SOLAR MIN)

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ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 600.0		ENERGY=100.000		PROTONS											
	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	5	9
-2.0	1	1	1	1	1	1	1	1	1	1	1	2	7	14	21
-3.0	1	1	1	1	1	1	1	1	1	1	2	10	21	33	53
-4.0	1	1	1	1	1	1	1	1	1	1	8	23	44	72	97
-5.0	1	1	1	1	1	1	1	1	1	2	14	31	58	88	119
-6.0	1	1	1	1	1	1	1	1	1	6	22	43	75	107	147
-7.0	1	1	1	1	1	1	1	1	2	13	35	66	106	148	190
-8.0	1	1	1	1	1	2	3	7	19	49	79	110	150	208	250
-9.0	1	1	1	1	1	2	7	16	38	78	136	171	212	265	319
-10.0	1	1	1	1	1	3	11	21	44	90	155	235	276	328	391
-11.0	1	1	1	1	1	4	14	28	55	97	178	284	359	414	463
-12.0	1	1	1	1	1	6	18	34	59	106	188	296	421	476	529
-13.0	1	1	1	1	2	8	23	43	74	120	211	327	484	539	605
-14.0	1	1	1	1	5	14	31	50	86	151	245	374	549	617	683
-15.0	1	1	1	1	10	30	38	66	108	176	286	439	608	689	754
-16.0	1	1	1	3	22	48	82	135	172	222	365	559	664	736	815
-17.0	1	1	2	8	30	63	109	172	240	382	582	666	755	851	958
-18.0	1	3	15	23	37	88	148	240	382	582	807	687	786	881	988
-19.0	2	5	23	35	68	117	204	339	434	528	623	728	841	974	1098
-20.0	1	9	13	52	107	183	267	350	444	551	664	786	910	1072	1236
-21.0	1	4	14	52	116	182	256	354	461	568	704	847	1025	1185	1362
-22.0	1	1	18	48	103	175	274	370	484	618	791	974	1164	1245	1303
-23.0	1	10	28	64	118	203	302	413	565	730	906	993	1072	1136	1190
-24.0	3	18	50	54	166	280	389	529	629	721	815	902	979	1046	1102
-25.0	4	17	46	87	144	223	322	444	530	624	712	799	878	947	1019
-26.0	3	13	32	60	99	153	225	316	408	515	633	723	795	874	949
-27.0	2	11	29	50	81	125	177	247	326	409	505	597	691	778	861
-28.0	3	13	27	46	77	114	161	218	286	365	450	529	623	719	828
-29.0	1	8	25	50	79	112	160	216	278	351	435	527	625	730	860
-30.0	1	6	20	49	81	123	171	230	292	378	476	577	690	814	970
-31.0	1	4	16	43	84	132	189	254	347	431	540	671	817	981	1187
-32.0	1														

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ALTITUDE= 600.0		ENERGY=100.000		PROTONS											
	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	2	3	5	4	2	1	1	1	1	2	3	1
1.0	1	3	5	5	13	16	11	6	4	8	13	12	9	4	2
0.0	6	10	15	24	37	27	20	17	22	29	37	29	14	8	4
-1.0	15	24	38	61	46	40	39	46	66	49	57	29	23	15	9
-2.0	33	53	86	72	69	64	78	107	89	66	52	43	37	32	23
-3.0	77	105	99	103	103	110	144	161	117	88	73	61	53	47	43
-4.0	110	127	137	140	153	177	203	237	151	121	94	87	77	71	67
-5.0	140	162	175	194	213	241	276	237	188	155	132	124	117	113	108
-6.0	171	205	237	253	294	321	355	290	237	216	189	180	174	170	184
-7.0	233	259	292	332	366	404	430	362	330	289	275	269	289	293	335
-8.0	294	342	372	416	451	473	508	469	439	421	417	449	464	459	429
-9.0	368	410	459	490	525	556	586	608	612	607	587	568	542	511	479
-10.0	446	496	532	577	613	644	669	678	678	672	659	633	607	581	567
-11.0	519	567	615	657	692	727	751	752	746	746	727	701	705	683	693
-12.0	596	650	703	749	780	815	832	841	837	825	812	819	815	842	865
-13.0	673	732	794	836	867	903	914	912	909	932	922	960	1015	939	819
-14.0	746	813	878	922	953	986	994	1023	1029	1062	1094	1161	1024	897	774
-15.0	826	903	960	1007	1042	1075	1118	1136	1184	1268	1233	1098	969	856	744
-16.0	903	973	1042	1095	1157	1206	1246	1305	1395	1302	1168	1056	937	828	707
-17.0	972	1057	1137	1212	1267	1344	1430	1442	1354	1235	1114	1019	908	801	687
-18.0	1037	1142	1248	1326	1437	1528	1477	1403	1298	1186	1092	988	897	771	726
-19.0	1129	1246	1358	1524	1540	1499	1440	1341	1243	1160	1048	972	868	804	802
-20.0	1247	1393	1535	1532	1489	1452	1365	1283	1206	1119	1051	945	898	904	950
-21.0	1423	1483	1486	1479	1434	1376	1311	1244	1177	1105	1032	976	995	1066	1209
-22.0	1410	1429	1423	14 C2	1354	1310	1265	1213	1156	1088	1049	1077	1163	1349	1494
-23.0	1324	1330	1328	1316	1301	1274	1227	1192	1146	1124	1177	1258	1466	1578	1380
-24.0	1224	1250	1267	1260	1249	1236	1226	1177	1187	1239	1369	1577	1642	1459	1336
-25.0	1153	1180	1200	12 C8	1209	1213	1198	1221	1306	1435	1678	1694	1526	1407	1307
-26.0	1070	1115	1153	1183	1177	1210	1270	1370	1541	1794	1741	1579	1467	1380	1388
-27.0	1008	1060	1102	1132	1192	1297	1428	1617	1874	1766	1622	1527	1454	1455	1537
-28.0	922	996	1071	1177	1304	1457	1696	1851	1773	1634	1565	1495	1509	1616	1758
-29.0	926	1024	1151	1299	1508	1777	1823	1744	1641	1574	1545	1568	1702	1868	1831
-30.0	980	1134	1313	1552	1797	1749	1681	1613	1582	1567	1621	1760	1930	1861	1617
-31.0	1148	1353	1629	1681	1643	1588	1570	1556	1575	1646	1811	2018	1865	1640	1461
-32.0	1460	1484	1497	1453	1484	1506	1504	1557	1676	1849	2075	1853	1634	1478	1341

ORIGINAL PAGE IS
OF POOR QUALITY

M-207

ALTITUDE= 600.0		ENERGY=100.000		PRCTONS											
	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-18.0	-16.0	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	7	5	4	3	2	2	1	1	1	1	1	1	1	1	1
-2.0	20	15	13	12	10	9	7	5	3	1	1	1	1	1	1
-3.0	40	35	30	27	24	20	15	9	2	1	1	1	1	1	1
-4.0	64	57	38	53	40	44	34	18	4	1	1	1	1	1	1
-5.0	107	110	114	115	107	106	59	29	5	6	3	1	1	1	1
-6.0	192	224	228	200	155	112	83	55	42	30	21	9	3	1	1
-7.0	358	311	249	222	184	158	136	120	97	75	54	28	13	6	1
-8.0	392	355	316	280	261	262	250	177	114	77	49	31	20	12	5
-9.0	444	418	401	403	432	324	215	151	105	80	56	41	30	21	11
-10.0	549	556	582	489	377	259	189	146	113	89	72	58	46	32	20
-11.0	712	670	531	434	317	237	189	156	134	117	97	82	70	51	33
-12.0	742	623	512	382	294	242	214	194	177	156	142	121	100	76	53
-13.0	698	601	452	366	307	279	259	248	236	221	205	184	152	121	81
-14.0	666	535	438	377	349	342	334	338	329	313	294	271	191	135	101
-15.0	614	614	456	428	433	441	453	472	464	414	333	256	202	166	131
-16.0	604	538	517	533	559	598	642	602	487	408	334	284	246	214	178
-17.0	623	611	642	677	735	839	664	576	485	427	365	347	332	290	256
-18.0	709	742	827	913	940	769	659	582	527	455	471	456	435	401	342
-19.0	841	559	1032	1020	858	755	579	634	629	608	619	649	595	444	326
-20.0	1077	1243	1117	953	854	790	763	760	772	797	871	646	491	376	312
-21.0	1398	1198	1058	953	901	879	899	951	1003	925	688	544	448	387	350
-22.0	1287	1160	1040	1004	1005	1040	1140	1172	974	749	616	528	479	456	432
-23.0	1254	1139	1104	1120	1170	1294	1233	1040	812	694	614	570	567	555	488
-24.0	1233	1215	1250	1301	1475	1287	1097	880	772	699	673	688	593	478	365
-25.0	1294	1336	1431	1634	1351	1159	902	851	790	786	762	580	469	374	322
-26.0	1448	1547	1687	1418	1222	1028	931	884	884	744	582	473	391	350	327
-27.0	1668	1744	1480	1290	1101	1002	976	965	738	592	486	416	385	366	309
-28.0	1795	1538	1339	1161	1065	1059	966	743	603	504	442	421	368	284	217
-29.0	1580	1397	1224	1135	1145	969	751	617	522	471	453	344	266	204	164
-30.0	1428	1272	1195	1211	979	761	532	543	497	440	328	250	197	160	139
-31.0	1314	1241	1276	985	771	647	566	521	422	317	241	192	160	132	101
-32.0	1279	1325	989	781	662	580	543	410	309	235	189	160	121	94	75

ALTITUDE= 600.0 ENERGY=100.000

PROTONS

	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	5	2	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	10	5	2	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	19	9	4	2	1	1	1	1	1	1	1	1	1	1	1
-12.0	32	16	8	3	1	1	1	1	1	1	1	1	1	1	1
-13.0	50	25	15	6	4	1	1	1	1	1	1	1	1	1	1
-14.0	69	48	31	10	12	5	3	1	1	1	1	1	1	1	1
-15.0	96	70	50	36	22	12	7	4	2	1	1	1	1	1	1
-16.0	140	108	76	56	39	25	14	7	4	3	1	1	1	1	1
-17.0	202	157	121	99	62	40	26	15	9	6	4	2	1	1	1
-18.0	287	190	142	112	84	64	50	35	26	18	11	9	5	4	2
-19.0	246	198	159	142	116	98	77	60	49	36	26	19	13	10	7
-20.0	272	237	219	189	161	137	113	95	74	60	48	38	29	21	15
-21.0	324	306	287	250	224	186	149	116	94	79	66	56	46	37	28
-22.0	416	406	398	330	279	193	134	119	104	93	82	75	65	57	48
-23.0	372	388	336	202	179	165	151	139	125	116	108	100	89	81	73
-24.0	298	258	231	216	205	194	180	169	159	143	124	110	99	92	85
-25.0	289	271	258	256	210	170	141	118	102	91	81	73	67	63	58
-26.0	316	275	214	172	138	116	101	89	79	73	67	62	58	54	50
-27.0	243	188	151	125	109	95	86	79	73	65	58	52	47	43	40
-28.0	173	141	122	107	96	80	67	57	50	45	40	37	34	32	30
-29.0	138	123	101	81	67	57	49	44	39	36	33	30	27	25	23
-30.0	112	88	72	60	52	45	40	37	32	28	25	23	21	19	17
-31.0	81	66	56	49	43	36	30	27	25	23	21	20	18	16	14
-32.0	63	54	45	37	31	28	25	23	22	21	20	19	17	16	14

ORIGINAL PAGE IS
OF POOR QUALITY

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ALTITUDE= 600.0		ENERGY=100.000				PROTONS										
	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-19.0	5	3	2	1	1	1	1	1	1	1	1	1	1	1	1	
-20.0	11	7	4	2	1	1	1	1	1	1	1	1	1	1	1	
-21.0	22	14	8	4	2	1	1	1	1	1	1	1	1	1	1	
-22.0	42	33	25	17	9	3	1	1	1	1	1	1	1	1	1	
-23.0	64	53	42	33	23	12	4	1	1	1	1	1	1	1	1	
-24.0	80	70	65	51	38	24	10	2	1	1	1	1	1	1	1	
-25.0	53	46	42	36	29	20	12	5	1	1	1	1	1	1	1	
-26.0	44	40	35	30	24	18	12	7	2	1	1	1	1	1	1	
-27.0	37	34	30	26	22	17	12	8	3	1	1	1	1	1	1	
-28.0	26	24	21	18	15	11	8	5	2	1	1	1	1	1	1	
-29.0	21	19	16	14	11	8	5	3	1	1	1	1	1	1	1	
-30.0	16	15	13	11	9	6	5	2	1	1	1	1	1	1	1	
-31.0	15	14	13	11	10	8	6	4	2	1	1	1	1	1	1	
-32.0	13	12	11	10	8	7	6	4	2	1	1	1	1	1	1	

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ALTITUDE: 600 KM

PROTONS: E > 250. MEV

TRAPPED PROTON MODEL: AP8 (SOLAR MIN)

PP

ORIGINAL PAGE IS
OF POOR QUALITY

ALTITUDE= 600.0 ENERGY=250.000

PROTONS

	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

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ALTITUDE= 600.0		ENERGY=250.000		PROTONS											
	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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-2.0	11	7	11	12	15	17	23	32	22	12	7	4	3	2	1
-3.0	11	16	19	23	27	32	43	48	27	16	11	8	5	4	3
-4.0	19	26	32	37	43	52	62	68	34	23	15	12	10	9	8
-5.0	31	38	47	54	62	72	85	64	43	30	22	20	18	17	17
-6.0	45	55	66	75	87	98	110	78	55	45	36	33	32	33	39
-7.0	64	73	85	98	110	124	133	100	83	66	61	60	58	74	95
-8.0	84	99	110	125	138	145	157	137	120	112	111	127	139	141	131
-9.0	108	122	138	149	160	171	180	187	189	187	181	175	166	155	143
-10.0	134	150	161	176	187	197	205	208	208	206	201	192	182	172	160
-11.0	158	172	187	200	211	222	230	230	229	227	219	209	206	192	186
-12.0	182	198	214	228	238	248	253	255	253	248	240	237	228	223	216
-13.0	205	223	242	254	264	274	277	275	271	274	266	267	266	237	198
-14.0	227	247	267	280	289	297	298	304	301	304	303	303	260	220	183
-15.0	251	274	291	304	313	321	330	331	337	349	323	280	239	204	175
-16.0	274	294	314	329	344	355	361	369	382	344	299	262	226	197	167
-17.0	294	317	339	358	371	387	401	394	358	317	278	246	217	189	167
-18.0	310	339	367	385	409	425	402	371	333	297	265	237	211	188	178
-19.0	333	364	391	430	426	406	379	344	312	283	252	230	211	197	198
-20.0	360	395	428	421	400	378	349	321	295	270	251	229	220	222	233
-21.0	397	408	403	393	371	351	328	304	284	265	250	239	244	260	289
-22.0	380	380	370	360	343	326	308	293	278	264	257	264	263	322	346
-23.0	343	342	333	330	322	310	296	287	278	276	288	306	350	355	315
-24.0	309	313	314	307	303	298	293	286	291	302	332	375	380	333	298
-25.0	283	287	291	292	291	290	292	299	318	347	398	392	348	314	287
-26.0	258	269	277	282	285	296	311	333	371	424	402	360	319	303	300
-27.0	239	253	266	276	292	317	346	388	441	407	369	341	319	314	321
-28.0	225	244	263	288	318	352	405	434	408	371	350	328	326	337	358
-29.0	227	251	281	316	363	421	425	400	372	350	338	336	354	380	364
-30.0	241	277	318	371	422	404	384	364	350	342	348	365	392	370	312
-31.0	278	323	382	489	377	361	352	343	343	352	375	408	370	316	271
-32.0	339	343	344	340	335	333	330	337	356	381	417	366	315	273	231

ORIGINAL PAGE IS
OF POOR QUALITY

M-212

ALTITUDE= 600.0		ENERGY=250.000		PROTONS											
	-30.0	-28.0	-26.0	-24.0	-22.0	-20.0	-18.0	-16.0	-14.0	-12.0	-10.0	-8.0	-6.0	-4.0	-2.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	3	3	2	2	2	2	1	1	1	1	1	1	1	1	1
-4.0	8	7	8	8	7	7	5	3	1	1	1	1	1	1	1
-5.0	19	21	25	28	28	32	18	8	4	1	1	1	1	1	1
-6.0	45	61	69	61	46	33	23	14	9	5	3	1	1	1	1
-7.0	111	95	80	64	52	42	32	25	17	11	7	4	1	1	1
-8.0	118	104	89	76	66	58	49	32	20	14	8	6	3	1	1
-9.0	128	116	105	98	95	80	66	44	22	16	11	8	5	3	1
-10.0	149	142	136	110	95	80	56	42	26	20	16	12	8	5	2
-11.0	179	158	126	95	71	54	45	37	32	27	22	17	12	8	4
-12.0	177	145	114	88	69	59	52	47	42	36	30	24	17	12	8
-13.0	164	135	106	87	75	70	64	60	55	49	42	34	24	17	11
-14.0	154	126	105	93	87	85	81	79	73	64	55	44	30	21	16
-15.0	145	124	112	107	107	108	106	104	97	80	62	48	37	28	20
-16.0	147	132	129	132	136	140	141	126	100	82	67	57	48	37	27
-17.0	153	152	159	164	173	184	147	121	101	89	80	71	63	50	37
-18.0	176	163	199	214	209	167	140	123	111	103	99	92	78	65	46
-19.0	207	230	252	230	188	162	144	134	127	127	127	120	100	84	43
-20.0	258	293	253	210	185	168	162	159	159	162	169	110	75	54	43
-21.0	324	273	234	208	192	186	188	193	200	176	118	85	67	55	48
-22.0	293	257	228	214	242	216	228	231	182	129	97	80	69	62	57
-23.0	278	250	237	236	212	259	242	194	140	110	93	82	76	72	56
-24.0	271	262	258	269	296	251	204	152	123	105	96	90	73	51	38
-25.0	279	290	294	327	266	216	166	136	119	112	94	68	49	38	30
-26.0	303	317	337	275	228	177	149	132	126	92	65	48	39	34	28
-27.0	341	348	287	240	190	160	145	135	89	64	48	39	34	30	25
-28.0	358	298	249	200	171	157	132	88	63	49	41	35	29	18	22
-29.0	306	260	212	183	164	130	88	64	50	42	37	25	16	9	11
-30.0	265	220	194	178	130	88	65	51	44	35	22	13	8	5	6
-31.0	227	201	187	129	88	66	53	45	33	21	12	7	5	3	4
-32.0	207	194	128	89	67	53	47	31	19	11	7	5	3	1	1

ALTITUDE= 600.0		ENERGY=250.000				PROTONS										
	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-11.0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-12.0	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-13.0	5	2	1	1	1	1	1	1	1	1	1	1	1	1	1	
-14.0	8	4	1	1	1	1	1	1	1	1	1	1	1	1	1	
-15.0	12	7	4	2	1	1	1	1	1	1	1	1	1	1	1	
-16.0	18	10	6	3	2	1	1	1	1	1	1	1	1	1	1	
-17.0	24	14	8	5	3	1	1	1	1	1	1	1	1	1	1	
-18.0	31	19	12	9	4	1	1	1	1	1	1	1	1	1	1	
-19.0	31	24	19	14	6	9	6	4	3	1	1	1	1	1	1	
-20.0	36	30	25	21	17	14	10	7	5	3	2	1	1	1	1	
-21.0	42	37	33	28	24	19	14	10	7	5	4	3	2	1	1	
-22.0	50	45	32	24	18	14	12	9	8	7	5	4	3	2	1	
-23.0	40	30	23	19	16	13	10	7	6	5	4	3	2	1	1	
-24.0	29	24	21	18	15	14	12	11	9	7	6	5	4	3	2	
-25.0	26	23	20	17	13	9	6	5	4	3	2	1	1	1	1	
-26.0	25	19	13	8	6	4	3	2	2	1	1	1	1	1	1	
-27.0	14	9	6	4	3	2	1	1	1	1	1	1	1	1	1	
-28.0	7	5	3	3	2	1	1	1	1	1	1	1	1	1	1	
-29.0	4	3	2	1	1	1	1	1	1	1	1	1	1	1	1	
-30.0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

M-214

A.TITUDE= 600.0		ENERGY=250.000				PROTONS										
	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-22.0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-23.0	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	
-24.0	3	3	2	1	1	1	1	1	1	1	1	1	1	1	1	
-25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
-32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

ALTITUDE: 600 KM

PROTONS: E > 500. MEV

TRAPPED PROTON MODEL: AP8 (SOLAR MIN)

QQ

ORIGINAL PAGE IS
OF POOR QUALITY

	ALTITUDE= 606.0		ENERGY=500.000		PROTONS										
	-90.0	-88.0	-86.0	-84.0	-82.0	-80.0	-78.0	-76.0	-74.0	-72.0	-70.0	-68.0	-66.0	-64.0	-62.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
-7.0	1	1	1	1	1	1	1	1	1	1	1	1	2	4	5
-8.0	1	1	1	1	1	1	1	1	1	2	3	4	5	6	9
-9.0	1	1	1	1	1	1	1	1	1	2	6	7	8	10	12
-10.0	1	1	1	1	1	1	1	1	1	1	5	10	11	13	15
-11.0	1	1	1	1	1	1	1	1	1	1	6	12	16	18	20
-12.0	1	1	1	1	1	1	1	1	1	1	4	10	19	21	23
-13.0	1	1	1	1	1	1	1	1	1	1	4	11	22	24	27
-14.0	1	1	1	1	1	1	1	1	1	2	5	12	25	28	30
-15.0	1	1	1	1	1	1	1	1	1	2	6	15	28	31	33
-16.0	1	1	1	1	1	1	1	1	1	4	10	24	30	33	36
-17.0	1	1	1	1	1	1	1	2	2	6	16	29	32	36	39
-18.0	1	1	1	1	1	1	2	2	5	12	27	30	33	36	40
-19.0	1	1	1	1	1	1	2	5	12	23	27	30	34	37	40
-20.0	1	1	1	1	1	2	6	14	19	23	26	30	33	37	40
-21.0	1	1	1	1	3	8	12	15	18	22	25	29	32	37	40
-22.0	1	1	1	2	6	7	10	13	16	19	23	27	32	35	37
-23.0	1	1	1	3	3	5	8	11	14	17	21	25	28	30	31
-24.0	1	1	1	1	1	4	6	9	12	15	18	21	23	25	26
-25.0	1	1	1	1	1	2	4	7	9	12	14	17	19	20	22
-26.0	1	1	1	1	1	2	3	5	7	9	11	14	16	17	19
-27.0	1	1	1	1	1	1	3	4	6	8	10	12	14	15	17
-28.0	1	1	1	1	1	1	3	4	5	7	9	11	13	15	17
-29.0	1	1	1	1	1	2	3	4	6	7	9	11	13	15	17
-30.0	1	1	1	1	1	1	3	4	6	7	9	11	14	16	18
-31.0	1	1	1	1	1	1	3	4	6	8	10	12	15	17	20
-32.0	1	1	1	1	1	1	2	4	6	8	11	14	16	19	22

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	A_TITUDE= 600.0		ENERGY=500.000		PROTONS										
	-60.0	-58.0	-56.0	-54.0	-52.0	-50.0	-48.0	-46.0	-44.0	-42.0	-40.0	-38.0	-36.0	-34.0	-32.0
32.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-2.0	1	1	1	1	1	1	2	4	1	1	1	1	1	1	1
-3.0	1	1	1	1	2	3	5	7	2	1	1	1	1	1	1
-4.0	1	1	1	3	4	6	9	7	3	1	1	1	1	1	1
-5.0	1	2	4	5	7	10	12	8	4	2	1	1	1	1	1
-6.0	3	5	7	8	11	13	16	9	5	4	2	2	2	2	3
-7.0	6	8	10	12	15	18	20	13	9	6	6	5	7	8	13
-8.0	10	12	14	17	19	21	23	19	15	14	13	17	20	21	19
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-10.0	18	20	22	25	27	29	30	31	31	30	29	27	24	21	18
-11.0	22	24	26	29	31	32	34	34	33	32	30	27	25	21	17
-12.0	26	28	31	33	34	36	37	36	35	34	31	29	24	19	14
-13.0	30	32	35	36	38	39	39	38	36	35	31	28	24	16	13
-14.0	33	36	38	40	41	41	41	40	38	35	32	27	22	15	12
-15.0	36	39	41	43	43	43	43	41	39	36	29	24	18	15	13
-16.0	39	41	44	45	46	45	44	42	39	32	26	21	17	14	13
-17.0	41	44	45	47	47	46	44	41	33	28	23	19	16	15	15
-18.0	42	45	47	47	47	46	41	35	30	25	21	18	17	17	17
-19.0	43	45	47	48	46	41	35	31	26	23	20	18	17	17	17
-20.0	43	45	46	44	40	35	31	27	24	21	20	19	19	19	20
-21.0	43	43	41	38	34	31	28	25	23	21	21	21	21	23	24
-22.0	37	36	34	33	30	27	25	24	22	22	22	23	25	27	27
-23.0	31	31	30	28	27	25	24	23	24	24	25	26	29	28	26
-24.0	26	26	26	25	24	24	24	25	25	26	29	31	30	27	25
-25.0	23	23	23	23	23	24	25	26	28	30	33	31	29	26	24
-26.0	20	21	22	23	24	26	27	29	32	35	32	30	28	26	26
-27.0	19	21	23	24	25	27	30	33	36	33	31	29	27	27	27
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-29.0	19	22	24	27	31	35	35	32	31	30	29	29	30	32	29
-30.0	21	24	27	31	35	32	31	31	30	30	30	31	32	30	25
-31.0	24	27	31	31	30	30	30	29	30	30	31	34	30	25	20
-32.0	26	27	28	28	29	28	28	29	30	32	34	29	25	20	15

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[illegible]